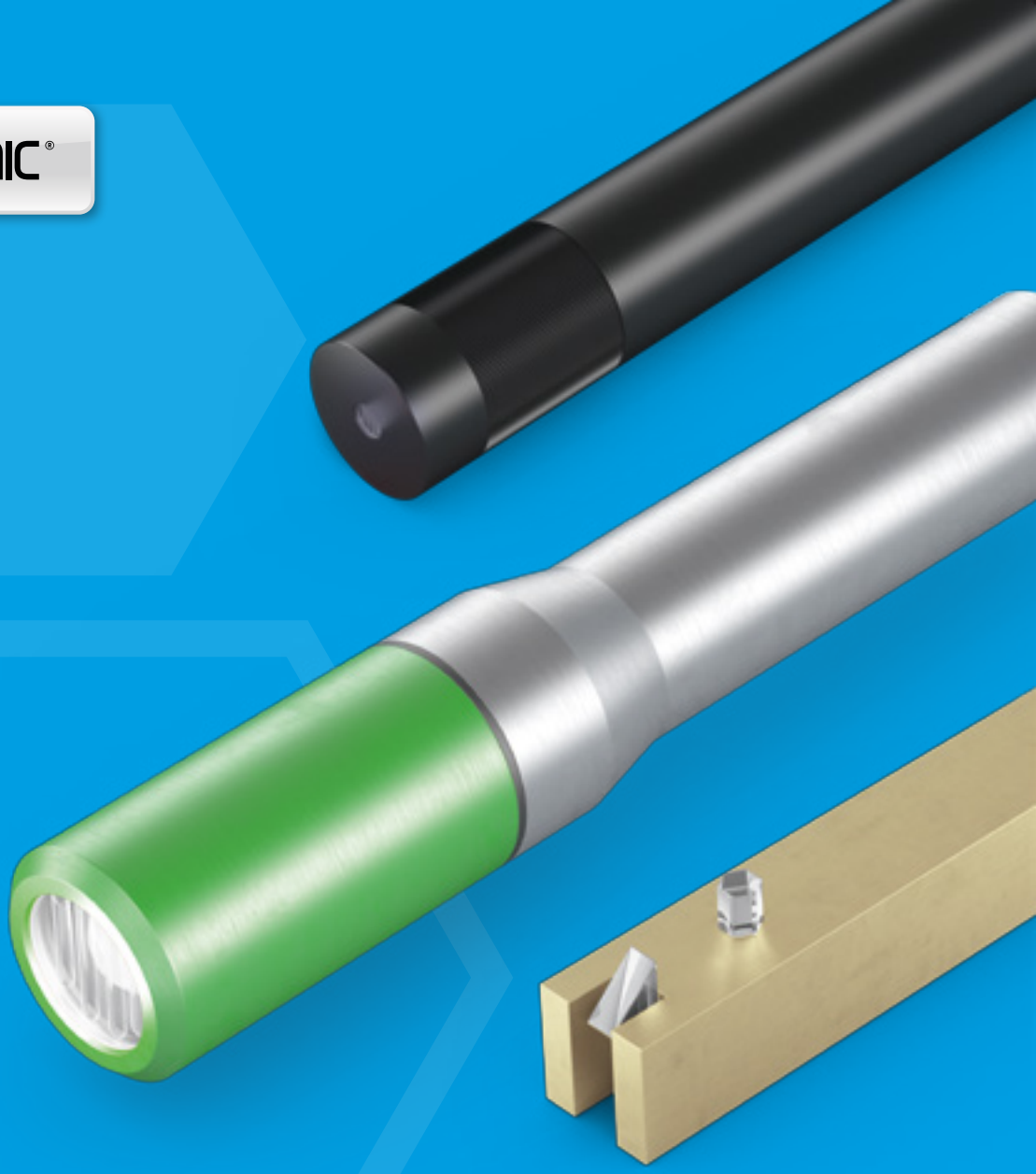
PICOTRONIC®



2018

PRODUCT CATALOG

LASER MODULES | DOE | ACCESSORIES

CERTIFIED ACCORDING TO ISO 9001:2015

HERZLICH WILLKOMMEN!

Welcome!

Liebe Leser,

inzwischen blicken wir auf mehr als 10 Jahre Firmengeschichte zurück und haben uns in dieser Zeit zu einem der führenden Anbieter für Lasermodule und integrierte Lösungen höchster Qualitätsanforderung in Deutschland entwickelt. Im Zuge des Wachstums sind wir nun außerdem Teil der Pico Group. Bescheidenheit ist zwar eine Tugend, aber dennoch ist es toll zu sagen: Darauf sind wir stolz.

Heute arbeiten rund 50 Mitarbeiter mit Leidenschaft daran, unsere zahlreichen Kunden aus Forschung, Industrie und Handwerk mit den perfekt passenden Lasern aus unserem Sortiment oder mit individuellen Sonderlösungen – **ohne Mehrpreis ab Auflage 1** – zu versorgen. Dabei setzen wir auf Beständigkeit und agieren als zuverlässiger Partner und Lieferant.

Die Picotronic® steht für qualitativ hochwertige Produkte, effiziente Prozessketten und einen ausgezeichneten Service. Dies erreichen wir durch unseren sogenannten Picotronic®-Circle, mit dem wir unser Handeln regelmäßig überprüfen und optimieren. So können wir Ihnen stets die rundum erstklassige Qualität bieten, die wir Ihnen versprechen.

Wir freuen uns auf die Zusammenarbeit und darauf, Sie bei Ihren Visionen unterstützen zu können.

Herzliche Grüße aus Koblenz

David Heckner
Geschäftsführer

Picotronic®-Circle

Dear readers,

We can now look back at our 10-year company history and know that during this time we have developed into one of the leading providers of laser modules and integrated solutions in Germany that satisfy the highest demands on quality. Our growth has led us to becoming part of the Pico Group. Humility may be a virtue, but it's still nice to say: we're proud of what we have achieved.

Today, about 50 employees dedicate their efforts to providing the many customers from research, industry and crafts with perfectly designed lasers from our product range or custom-designed special solutions – at no extra charge, applicable from batch sizes of one. In doing so, we rely on consistency and serve as a reliable partner and supplier.

Picotronic® stands for high-quality products, efficient process chains and excellent service. We achieve this through our so-called Picotronic®-Circle, which we apply to regularly review and optimize what we do. This allows us to always provide the promised comprehensive quality.

We look forward to working together with you and support you in turning your visions into something great.

Kind regards from Koblenz

David Heckner
Geschäftsführer

„Dank unserem eigenen programmierten ERP-System können wir Ihnen kundenspezifische Laser ohne Mehrkosten anbieten.“

„Thanks to our own, programmed ERP system we are able to offer you customer-specific lasers at no additional cost.“

JONAS MITSCHANG, CTO SOFTWARE AND DEVELOPMENT

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Bei Picotronic® finden Sie garantiert die passende Lösung.
You are guaranteed to find the matching solution at Picotronic®.

UNENDLICHE AUSWAHL!

Endless range!

„Für die Branche sind wir Spezialist,
für den Markt Generalist. Und Ihre
Anforderungen sind dabei unser Ansporn."

*"We are a specialist for the sector;
an all-rounder for the market.
And their needs are what motivate us."*

HANNA SCHÜTT, PRODUCTION PLANNING MANAGER

Über 3.000 Laser für Industrie und Gewerbe, Medizin und Forschung finden sich bereits in unserem Standard-Portfolio, das sich in den letzten 12 Jahren zu einem der größten Sortimente von Lasermodulen in ganz Europa entwickelt hat. Und jeden Tag kommen weitere hinzu! Dabei decken wir nicht nur eine enorme Bandbreite an klassischen Punkt- und Linienlasern ab, sondern auch zahlreiche Sonderformen für unterschiedlichste Anwendungen.

Auch für hohe Stückzahlen können wir dank unserer hoch spezialisierten Logistik kurze Lieferzeiten garantieren – und sind jederzeit lieferfähig.

Und wenn tatsächlich einmal nicht das Richtige für Ihre Zwecke dabei sein sollte? Kein Problem! Wir fertigen für Sie Ihr individuelles Lasermodul – schon ab Auflage 1 ohne Mehrkosten. Versprochen!

Our standard portfolio already features over 3,000 lasers for the industry and trade, medical applications as well as research and development and it has evolved throughout the last ten years to become one of the largest laser module ranges in Europe. We are adding more models each day! In this process, we not only cover a vast bandwidth of classic dot and line lasers, but also offer numerous special types for the most diverse of applications.

Thanks to our highly specialised logistics we can guarantee short delivery times and are always prepared for deliveries, even with large batches.

And what if you are really unable to find the right one for your purposes? No problem! We will produce your individual laser module for you – from batch sizes of one and without incurring any additional costs. That's a promise!

picotronic

Denn Qualität überlassen wir bei Picotronic® nicht dem Zufall.

At Picotronic® we do not leave quality to chance.

VERTRAUEN IST GUT, KONTROLLE IST BESSER.

Trust, but verify.

„Nur wenn man 100% testet, kann man auch 100% sicher sein. Das macht zwar viel Arbeit, lohnt sich aber unterm Strich für alle."

"You can only be 100% sure if you test 100%. It's lots of work, but worth it for everyone."

JULIAN SCHARRENBACH

Wenn Sie eines unserer Lasermodule kaufen, können Sie sicher sein…

…dass unsere Experten in der Produktion Ihren Laser unter besten Bedingungen sorgfältig montiert und für den Einsatz vorbereitet haben.

…dass jedes einzelne Modul eine streng definierte Testreihe zur Qualitätssicherung durchlaufen und einwandfrei bestanden hat.

…dass Ihr Laser allen rechtlichen Vorgaben bezüglich Arbeitssicherheit & Kennzeichnung entspricht.

… dass er in einem Unternehmen produziert wurde, das alle erforderlichen Zertifizierungen besitzt und regelmäßig unabhängig kontrolliert wird.

…und dass er absolut zuverlässig über die gesamte Lebensdauer den ihm zugedachten Zweck erfüllen wird. Ein gutes Gefühl, oder?

If you purchase one of our laser modules, you can be sure that…

…our experts have carefully assembled and prepared your laser in the best production environment possible.

…each module has completed a strictly defined quality assurance test series and passed with no issues.

…your laser complies with all legal stipulations in terms of occupational safety and labelling.

…it was produced in a company boasting all required certifications which are regularly verified by independent testers.

…it will absolutely reliably operate as intended across the entire service life. That's a good feeling, right?

Schnelligkeit und Zuverlässigkeit sind unser Versprechen an Sie.
Speed and reliability are our promises to you.

HEUTE BESTELLT. MORGEN DA.

Order today. Use tomorrow.

„Eine gute Logistik ist natürlich die Grundlage, aber nichts geht über ein mit Sorgfalt gepacktes Paket, das bereits auf dem Weg zu Ihnen ist."

"Excellent logistics is of course the foundation, but nothing beats a carefully packaged parcel, that is already on its way to you."

NATALIA DELL

Schnelligkeit bei der Entwicklung ist ein enormer Wettbewerbsvorteil – wer weiß das besser als Sie?

Wir von Picotronic® unterstützen Sie dabei, so gut wir können. Unser professionelles Team, ein hoher Lagerbestand und eine ausgeklügelte Logistik sorgen dafür, dass über 90% der bei uns eingehenden Bestellungen noch am gleichen Tag unser Haus verlassen. Und schon am nächsten Tag bei unseren Kunden eintreffen.

Natürlich kann es bei sehr großen Stückzahlen oder Sonderanfertigungen auch mal etwas länger dauern – aber wir arbeiten daran!

Speed in development represents a significant competitive edge – who knows that better than you?

At Picotronic® we support you to the best of our abilities. Our professional team, vast stocks and sophisticated logistics make sure that over 90% of the orders we receive leave our premises on the same day to already be with customers on the next day.

Naturally, larger batches or customised models may take more time – but we are working on it!

PICOTRONIC
PICOTRONIC
PICOTRONIC
PICOTRONIC

PICOTRONIC

Wir helfen Ihnen weiter. Garantiert!

We are happy to help. Guaranteed!

BERATUNG UND SERVICE AUF AUGENHÖHE!

Advice and service from expert to expert!

„Klar, dass der Anspruch groß ist. Wir haben ja meistens absolute Profis am anderen Ende, die genau wissen, was sie wollen."

"Of course we aim high. Most of the time we are dealing with absolute professionals who know exactly what they want."

LISA WINKLER

Unser komplettes Team, von Vertrieb und Service bis hin zur Entwicklung und Produktion, besteht aus diplomierten Ingenieuren und geschulten Fachkräften, die alle eines gemeinsam haben: Sie wissen wovon sie reden – und sie versprechen nichts, was sie nicht halten können.

Mit diesem Grundvertrauen können Sie sich mit Ihrer Anfrage jederzeit an uns wenden. Übrigens: Bei Picotronic® ist auch eine ausführliche Beratung kostenlos und absolut unverbindlich.

Our entire team, from sales and service to development and production consists of engineers with university qualifications and trained specialists that all have one thing in common: they know what they are talking about – and will not promise anything they cannot keep.

You can always be sure of this level of confidence when you submit your request. By the way, at Picotronic® we do not charge for our absolutely unbinding advice.

Individuelle Sonderanfertigungen ab Auflage 1 – ohne Mehrkosten.
Individual, customised solutions from a batch size of one – at no additional costs

LASER NACH MAß!

Customised lasers!

„Ob individuelle Lösungen oder von ‚der Stange' – für unseren Kunden machen wir es möglich."

"Whether tailored solution or 'off the rack' – we have whatever our customers need."

VALERIE DOMS, PRODUCT MANAGER

Bei Picotronic® haben Sie freie Auswahl aus einem großen und vielfältigen Standard-Sortiment von über 3.000 Lasermodulen und umfangreichem Zubehör.

Darüber hinaus fertigen wir für Sie auch Ihren individuellen Laser nach vorgegebenen Spezifikationen oder empfehlen Ihnen die beste Lösung entsprechend des geplanten Verwendungszweckes. Alle relevanten Parameter sind frei nach Ihren Vorgaben wählbar, von Strahlform und Ausgangsleistung bis hin zu Details wie Kabellänge, Batterietyp oder Gehäusematerial.

Und das Beste: Sie erhalten Ihr eigenes Lasermodul schon ab Auflage von einem Stück und komplett ohne Mehrkosten für Entwicklung und Fertigung!

At Picotronic® you have the choice of an ample and versatile standard range of over 3,000 laser modules including comprehensive accessories.

We will also produce your individual laser according to your specifications or recommend the best solution to match the planned purpose. All relevant parameters can be configured according to your specifications, from beam type and output to details, such as cable length, battery type or housing material.

And the best thing is we will supply your personal laser module from a batch size of one at no additional costs for development and production.

Hohe Produkt- und Leistungsqualität durch zertifizierte Prozesse.
High product and performance quality thanks to certified processes.

AUF GANZER LINIE AUSGEZEICHNET!

Certified performance from start to finish!

„Wer von uns für Qualität zuständig ist? Natürlich jeder einzelne! Daher leben wir unser Qualitätsmanagement täglich und in allen Prozessen."

ISO
ZERTIFIZIERT
ISO-certified

"Who is responsible for 'quality' here? Of course, each and every one of us! That is why we practice what we preach when it comes to quality management – day after day in every step along the process."

MADLEN KLÖTZER, QUALITY MANAGER

Qualitätsmanagement? Das ist bei uns schon lange selbstverständlich. In der Tat haben wir bereits seit Gründung kontinuierliches Qualitätsmanagement betrieben und uns laufend verbessert. Heute zeichnet uns der Standard ISO9001:2015 aus. Außerdem sind wir als Mitglied deutschen Institut für Normung e.V. (DIN) immer up to date. So können wir die neuesten Produkt- und Qualitätssicherungsstandards auf Basis der aktuellsten Normen immer direkt in unsere Prozesse mit einfließen lassen.

So bieten wir unseren Kunden eine konstant erstklassige Qualität auf ganzer Linie. Unser Ziel im Qualitätsmanagement ist es, alle Schritte vom ersten Kontakt bis hin zu Auslieferung und Service immer wieder auf die Wünsche und Anforderungen unserer Kunden auszurichten.

Um intern alle Prozessstandards transparent und einfach umsetzbar zu gestalten, setzen wir seit Beginn an auf intelligente Digitalisierung.

Quality management? This has long been a matter of course for us. The fact is that we have practiced an ongoing quality management since our founding; and we have continually gotten better at it. Today, ISO 9001:2015 acknowledges what we do. As a member of the German Institute for Standardization (DIN), we are always up to date. This enables us to directly incorporate the newest product and quality assurance standards, which are based on the latest standards, into our processes.

Thus, we are able to provide our customers with consistent, first-class quality along the entire product and services range. Our objective when it comes to quality management is consistently focusing our activities – from initial contact to delivery and service – on the wishes and requirements of our customers.

To this end, we have relied on intelligent digitalization right from the start to make all internal process standards more transparent and easily implementable.

DIN
MITGLIED
ISO

DER PICOTRONIC® LASERFINDER

The Picotronic® Laserfinder

Auch wenn wir hoffen, dass Ihnen unser Katalog gefällt: Nicht jeder ist ein „Papiermensch“ und blättert gerne durch viele Seiten.

Ab sofort können Sie auch bequem vom Rechner, Tablet oder Smartphone aus in unserem umfangreichen Sortiment von Lasermodulen stöbern oder sogar Ihr individuelles Lasermodul konfigurieren und anfragen.

Der Picotronic® Laserfinder steht ab sofort in den App Stores von Apple und Android kostenlos zur Verfügung. Wir wünschen Ihnen viel Freude beim Suchen und Finden!

Even if we hope you like the catalogue: not every-one is a „paper person“ that enjoys flicking through numerous pages.

From now on you can also browse our comprehensive laser module range from your computer, tablet or smartphone and even configure and request your individual laser module.

The Picotronic® laser finder is now available free of charge from the Apple and Android app stores. We hope you enjoy searching and finding the right one for you.

NEW TO THE TEAM!

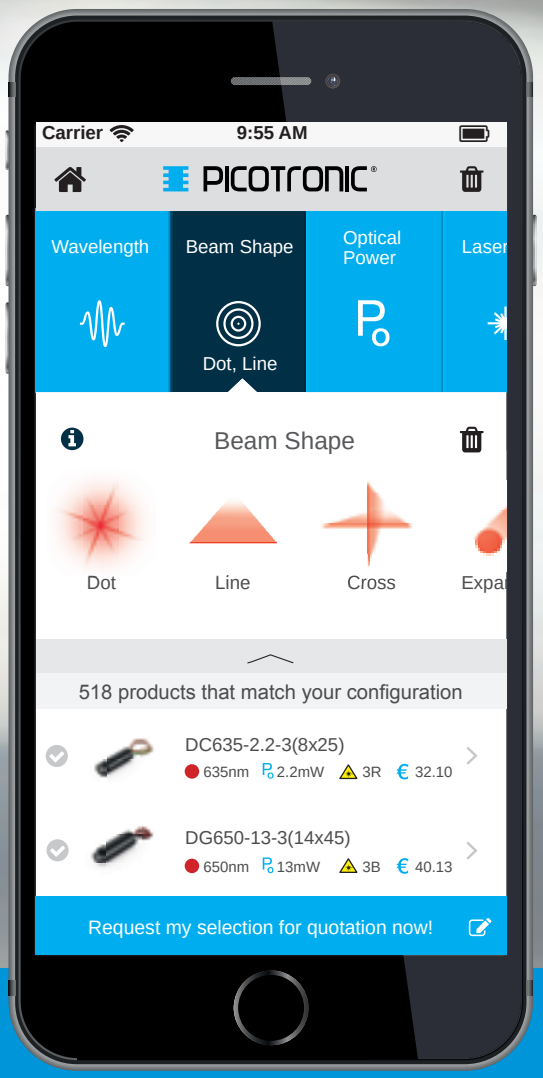
THE PICOTRONIC® LASERFINDER.

SPIELEND LEICHT LASERMODULE FINDEN, SPEZIFIZIEREN UND ANFRAGEN.

EASILY FIND, SPECIFY AND ENQUIRE ABOUT LASER MODULES.

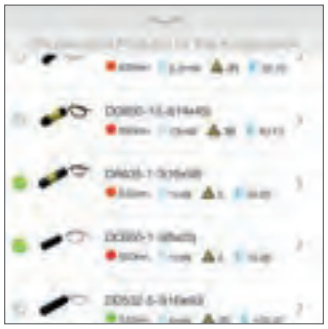
Download on the App Store

Available on the Android App Store



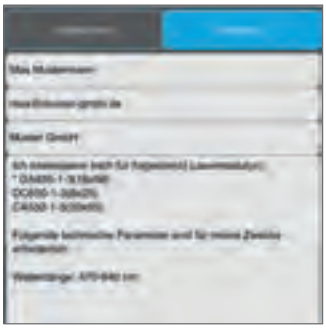
Kinderleicht können Sie Ihre Wunschspezifikationen angeben...

It is so easy to enter your desired specifications...



...sich passende Module aus unserem Sortiment anzeigen lassen...

...have the system list matching modules from our range...



...und Ihren Wunschlaser bequem bei uns anfragen!

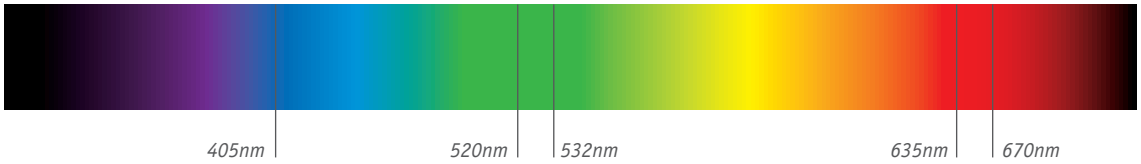
...and conveniently request your desired laser!

NATÜRLICH AUCH ALS WEBVERSION AUF / *ALSO AVAILABLE ONLINE AT* **WWW.LASERFINDER.DE**

WELLENLÄNGE *WAVELENGTH*

Die Wellenlänge ist ein elementarer Parameter eines Lasermoduls und beschreibt die Farbe des Laserlichts. Wir bieten sichtbare Laser von Blau 405nm bis Rot 670nm an und darüber hinaus Wellenlängen im unsichtbaren Infrarot. Rote Lasermodule können sehr kompakt gefertigt werden und sind für raue industrielle Bedingungen geeignet. Grüne Wellenlängen werden vom Auge am besten wahrgenommen und eignen sich besonders gut für schwierige Lichtverhältnisse.

The wavelength is an elementary parameter of a laser module and describes the colour of the laser light. We offer visible lasers from blue 405nm to red 670nm and also wavelengths in the invisible infrared spectrum. It is possible to produce very compact red laser modules and they are suitable for rough, industrial conditions. Green wavelengths are the most visible to the eye and they are particularly suitable for challenging lighting conditions.



AUSGANGSLEISTUNG *OPTICAL POWER*

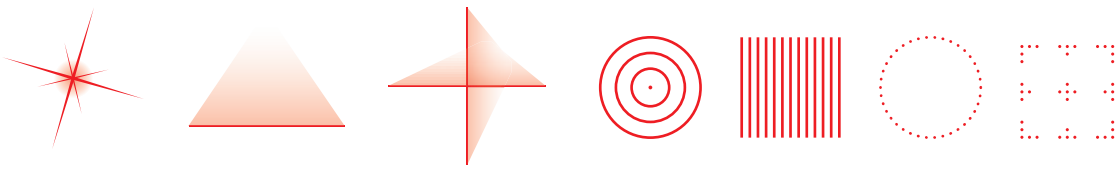
Die Ausgangsleistung beschreibt die Lichtmenge, die aus der Laseröffnung austritt und ist ein Maß für die Helligkeit des Lasers in einer bestimmten Entfernung. Laser können sehr große Intensitäten erreichen und somit ist immer auf den Laserschutz zu achten.

The output power describes the light quantity escaping from the laser aperture and it represents a scale for the brightness of the laser at a certain distance. Lasers are able to achieve very significant intensities and for this reason, it is very important to observe laser protection measures.

STRAHLFORM *BEAM SHAPE*

Neben klassischen Punktlasern bieten wir Linien-und Kreuzlaser mit verschiedenen Projektionsgrößen an. Zudem haben wir ein großes Sortiment an Diffraktiven-Optiken mit speziellen Strahlformen.

In addition to classic dot lasers we also offer line and cross lasers with different projection dimensions. We also offer an ample range of diffractive optics with special beam shapes.



TECHNISCHE INFORMATIONEN

Technical information

LASERKLASSE *LASER CLASS*

Laser stellen durch ihre physikalischen Eigenschaften ein Gefahrenpotential dar, deshalb werden alle Laser in bestimmte Laserklassen aufgeteilt. Laserklasse 1, 1M, 2 und 2M können in der Regel problemlos ohne großen Aufwand verwendet werden. Laserklassen 3R, 3B und 4 sind aufgrund der direkten Gefährdung von Augen und Haut mit speziellen Schutzmaßnahmen zu verwenden. Sollten Sie Fragen haben, stehen wir Ihnen jederzeit zur Verfügung.

Lasers pose a potential risk on the basis of their physical properties and for this reason, all lasers are split into certain laser classes. As a rule, laser classes 1, 1M, 2 and 2M can be used without taking special precautions. Laser classes 3R, 3B and 4 must be used in conjunction with special protective measures due to the direct hazard they pose to eyes and skin. If you have any questions, please do not hesitate to contact us at any time.

1	Die zugängliche Laserstrahlung ist ungefährlich.	*Accessible laser radiation is harmless.*
1M	Die zugängliche Laserstrahlung ist ungefährlich, solange keine optischen Instrumente wie Lupen oder Ferngläser verwendet werden.	*The accessible laser radiation is harmless providing no optical instruments such as magnifying glasses or binoculars are used.*
2	Die zugängliche Laserstrahlung liegt nur im sichtbaren Spektralbereich (400 nm bis 700 nm). Sie ist bei kurzzeitiger Bestrahlungsdauer (bis 0,25 s) ungefährlich für das Auge. Eine längere Bestrahlung wird durch den natürlichen Lidschlussreflex verhindert.	*The accessible laser radiation is only in the visible spectral range (400 nm to 700 nm). It is also safe for the human eye in case of short term exposure to radiation (up to 0.25 s). A longer exposure is prevented by the natural eyelid closing reflex.*
2M	Wie Klasse 2, solange keine optischen Instrumente, wie Lupen oder Ferngläser verwendet werden.	*Like class 2 providing no optical instruments such as magnifying glasses or binoculars are used.*
3R	Die zugängliche Laserstrahlung ist gefährlich für das Auge.	*The accessible laser radiation is dangerous to the human eye.*
3B	Die zugängliche Laserstrahlung ist gefährlich für das Auge und in besonderen Fällen auch für die Haut.	*The accessible laser radiation is dangerous to the human eye and in special cases also to the skin.*
4	Die zugängliche Laserstrahlung ist sehr gefährlich für das Auge und gefährlich für die Haut. Auch diffus gestreute Strahlung kann gefährlich sein. Die Laserstrahlung kann Brand- oder Explosionsgefahr verursachen.	*The accessible laser radiation is dangerous to the human eye and dangerous to the skin. Diffuse radiation can also be dangerous. The laser radiation can cause a danger of fire or explosion.*

DIVERGENZ *DIVERGENCE*

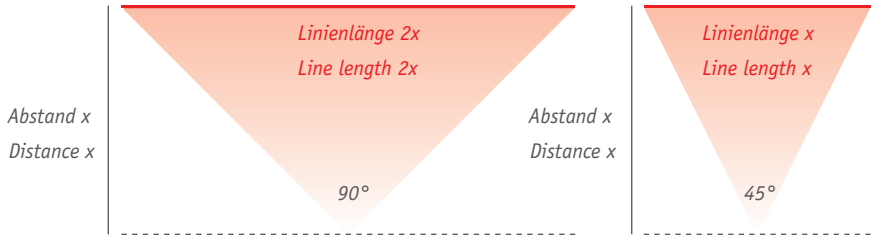
Die Divergenz beschreibt die Aufweitung des Laserpunktes oder der Liniendicke über die Entfernung und spielt in der Regel nur bei größeren Arbeitsabständen eine Rolle. Bei kleineren Distanzen kann dieser Parameter vernachlässigt werden.

The divergence describes the expansion of the laser dot or the line thickness across a distance and it is usually only important in conjunction with larger operating distances. This parameter can be neglected with smaller distances.

ÖFFNUNGSWINKEL *FAN ANGLE*

Der Öffnungswinkel ist ein charakteristischer Parameter für Linien-und Kreuzlaser. Über diesen Winkel kann die Linienlänge im Arbeitsabstand ermittelt werden. Je größer der Öffnungswinkel desto schneller wächst die Linienlänge an, aber die Helligkeit der Linien nimmt ab.

The aperture angle is a characteristic parameter for line and cross lasers. This angle allows a determination of the line length in the operating distance. The larger the operating angle, the faster the line length grows, while the line's brightness decreases.



LINIENDICKE • **PUNKTGRÖSSE** *LINE THICKNESS* • *SIZE LASERDOT*

Die Linienbreite oder Punktgröße wird in einem bestimmten Arbeitsabstand ermittelt und hängt von der Divergenz des Lasermoduls ab. Je größer der Arbeitsabstand und die Divergenz desto größer die Linienbreite. Bei Lasermodulen mit einstellbarem Fokus kann auch die Liniendicke frei eingestellt werden.

The line width or dot size is determined at a certain operating distance and depends on the laser module's divergence. The greater the operating distance and divergence, the wider the line. In laser modules with adjustable focus the line thickness can also be adjusted freely.

TECHNISCHE INFORMATIONEN

Technical information

OPTIK *OPTICS*

Antireflex beschichtete Glaslinsen haben sehr gute optische Eigenschaften und bieten eine sehr hohe Güte an die Abbildung. Kunststofflinsen finden ihren Einsatz im preisgünstigen Segment.

Anti-reflection glass lenses boast excellent optical properties and outstanding representation quality. Plastic lenses are used in the low-cost segment.

SCHUTZLINSE *PROTECTION LENS*

Die Schutzlinse dient der Abschirmung der eingebauten Optiken und des Lasermoduls gegen äußere Einflüsse. Sie erlaubt einen Einsatz des Lasermoduls auch bei staubiger Umgebung und unter harten Industriebedingungen.

The protective lens is intended to shield installed optics and the laser module from external influences. It allows a use of the laser module in very dusty environments and in industrial conditions.

STRAHLRICHTUNGSFEHLER *AXIAL DIVERGENCE*

Der Strahlrichtungsfehler gibt Auskunft über die Abweichung des Laserstrahles von der Achsrichtung und wird als Winkel angegeben. Er ist nur von Bedeutung, wenn die Lasermodule für präzise Ausrichtungszwecke eingesetzt werden.

The beam direction error provides information about the deviation of the laser beam from the axis direction and it is stated as an angle. This value is crucial in the event of highly accurate alignment purposes only.

ABMESSUNGEN *SIZE*

Die äußeren Abmessungen der Lasermodule variieren aufgrund von verschiedenen Bauformen. Rote Lasermodule können kompakter gefertigt werden als grüne Laser.

External dimensions of laser modules vary due to different designs. Red laser modules can be produced in more compact designs than green lasers.

MATERIAL *MATERIAL*

Verschiedene Gehäusematerialien stehen zur Verfügung. In der Regel wird Aluminium verwendet aufgrund der flexiblen Einsatzmöglichkeiten und des günstigen Preises. Höherwertigere Materialien wie Edelstahl können auf Wunsch auch verwendet werden.

Various housing variants are available. Aluminium is usually used due to its flexible properties and the low price. We can also use more high-quality materials, such as stainless steel.

KABELLÄNGE *CABLE LENGTH*

Von 30 mm bis 300 m können wir alle Kabellängen realisieren.

We can provide any cable lengths, from 30 mm to 300 m.

KABELTYP *WIRE TYPE*

Neben Einzellitzen mit offenen Kabelenden bieten wir auch isolierte Kabel an, die den aktuellen Normen und Richtlinien entsprechen. Für anspruchsvollere Anwendungen empfehlen wir ummantelte Kabel.

In addition to single strands with open cable ends we also offer insulated cables in line with current standards and directives. We recommend using shielded cables for more challenging applications.

FOKUS *FOCUS*

Es werden sowohl Lasermodule mit fixiertem Fokus / Arbeitsabstand angeboten als auch Lasermodule, die über einen stufenlos einstellbaren Fokus verfügen.

We offer laser modules with a fixed focus/operating distance as well as laser modules with continuously adjustable focus.

POTENTIAL DES GEHÄUSES *POTENTIAL OF HOUSING*

Viele unserer Module werden von Werk ab mit einem elektrisch isolierten Gehäuse ausgeliefert. Einige Laser haben entweder positive oder negative Versorgungsspannung am Gehäuse anliegend. Bei Verwendung von Modulen mit Potenzial auf dem Gehäuse muss darauf geachtet werden, dass kein andere Spannung an der Halterung oder Befestigung anliegt.

Many of our modules are delivered with an electrically insulated housing ex works. Some of the lasers are available with either positive or negative supply voltage to the housing. With modules featuring potential to the housing it is important to ensure no other voltage applies to the fixing device or attachment.

TECHNISCHE INFORMATIONEN

Technical information

MODULATIONSFREQUENZ *MODULATION FREQUENCY*

Unsere modulierbaren oder schaltbaren Lasermodule können über ein digitales TTL-Signal angesteuert werden. Somit lassen sich Schaltfrequenzen bis 200 kHz realisieren. Die Modulationsspannung entspricht der Eingangsspannung des Lasermoduls.

Our modular or switchable laser modules can be actuated using a digital TTL signal. As a result, it is possible to implement switching frequencies of up to 200 kHz. The modulation voltage corresponds to the laser module's input voltage.

LEBENSDAUER *LIFETIME*

Wir spezifizieren die mittlere Lebensdauer (MTTF) unserer Lasermodule bei 23°C Raumtemperatur. Ein wesentlicher Einfluss auf die Lebensdauer ist die Umgebungstemperatur. Mit steigender Umgebungstemperatur reduziert sich die Lebensdauer des Moduls.

We specify the mean time between failures (MTTF) of our laser modules at an ambient temperature of 23°C. The ambient temperature is a crucial factor in terms of service life. The module service life decreases with an increasing ambient temperature.

BETRIEBSSPANNUNG *OPERATING VOLTAGE*

Wir bieten eine große Anzahl von verschiedensten Eingangsspannungen an und können auch auf besondere Wünsche eingehen. Grundsätzlich können alle Module mit Netzteilen oder Batterien verwendet werden. Es wird keine weiterere Elektronik benötigt außer einer gleichgerichteten Spannungsquelle.

We offer a large number of different input voltages and are able to cater to special requests. As a rule, all modules can be operated with mains units or batteries. No other electronic components are required except a rectified power source.

BETRIEBSTEMPERATUR *OPERATING TEMPERATURE*

Für eine hohe Langlebigkeit und eine stabile Ausgangsleistung sollten alle unsere Module innerhalb der angegebenen Betriebstemperatur betrieben werden. Unsere Halbleiterlaser sind auch für den Outdoor-Bereich ganzjährig ausgelegt.

Operate all our modules within the listed operating temperature to safeguard a long service life and stable output power. Our semiconductor lasers are suitable for outdoors in any weather conditions, all year round.

Punktlaser | Dot Laser

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Focus	Operating Voltage V DC	Size mm	Size of Laserdot	Operating Current mA	Potential of Housing	Cable length mm	Page
70115505	DD405-1-3(14X45)	405	1	2	D - 0.5	adjustable	3	Ø14x45	adjustable	60	isolated	100	35
70115109	DDI405-1-24-F(12X60)-C500	405	1	2	D - 0.5	adjustable	24	Ø12x60	adjustable	15	isolated	500	42
70116366	MDD405-1-5(12.7X40)	405	1	2	D - 0.5	adjustable	5	Ø12.7x40	adjustable	50	isolated	150	online
70107845	DD405-5-6(22X65)	405	5	3R	D - 0.5	adjustable	6	Ø22x65	adjustable	35	isolated	100	33
70107852	DE405-12-6(22X65)	405	12	3B	E - 0.6	adjustable	6	Ø22x65	adjustable	50	isolated	100	36
70132212	DC520-0.4-24(12X45)QCW-C10000	520	0.4	1	C - 0.4	collimated	24	Ø12x45	<4mm@5m	5	isolated	10000	48
70129533	DC520-0.5-3(8X30)-F10000	520	0.5	2	0.4	fixed (10.0m)	3	Ø8x30	5mm@10m	50	isolated	127	online
70121025	DD520-1-24(12X40)-QCW	520	1	2	D - 0.5	collimated	24	Ø12x40	<8mm@10m	10		100	77
70118384	DF520-1-5(3.8X9.15)-QCW	520	1	2	F - 0.7	collimated	5	Ø3.8x9.15	<12mm@10m	30		100	79
70118285	DG520-1-5(8X35)-QCW	520	1	2	G - 0.8	collimated	5	Ø8x35	<8mm@10m	40		100	online
70124507	DA520-1-24(20X80)-QCW	520	1	2	A - 0.1	collimated	24	Ø20x80	<10mm@40m	50	isolated	200	51
70125740	DI520-1-3(12X47)	520	1	2	I - 1.5	collimated	3	Ø12x47	<8mm@10m	120	isolated	150	71
70122343	MDD520-1-3(22X105)-S-AP-QCW	520	1	2	D - 0.5	collimated	3	Ø22x105	<4mm@5m	80	VDD(+)		43
70127010	DB520-1-3-FA(14X45)-AP-QCW	520	1	2	B - 0.3	fixed (10.0m)	3	Ø14x45	<3..4mm@10m	100	isolated	200	34
70124477	DD520-1-12(12X40)-QCW	520	1	2	D - 0.5	collimated	12	Ø12x40	6mm@10m	10		3000	online
70132564	DD520-5-3-F(16X62)-QCW-DOE	520	5	3R	D - 0.5	adjustable	3	Ø16x62	adjustable	180	isolated	100	60
70118698	DA520-5-3(12X55)-QCW	520	5	3R	A - 0.1	adjustable	3	Ø12x55	adjustable	50	isolated	100	61
70118445	DG520-5-5(8X35)-QCW	520	5	3R	G - 0.8	collimated	5	Ø8x35	<8mm@10m	150	isolated	100	45
70123692	DD520-5-5(12X35)-QCW-DOE	520	5	3R	D - 0.5	collimated	5	Ø12x35	<8mm@10m	200	isolated	100	70
70118452	DG520-5-5(6.2X20.5)-QCW	520	5	3R	G - 0.8	collimated	5	Ø6.2x20.5	<8mm@10m	60		100	online
70121056	DG520-5-24(6X19)	520	5	3R	G - 0.8	collimated	24	Ø6x19	<8mm@10m	150		100	online
70118421	DG520-5-5(6X19)-QCW	520	5	3R	G - 0.8	collimated	5	Ø6x19	<8mm@10m	150		100	online
70118308	DF520-10-5(8X35)	520	10	3B	F - 0.7	collimated	5	Ø8x35	<8mm@10m	100	VDD(+)	100	45
70122107	DA520-10-5(20X80)-POTI	520	10	3B	A - 0.1	collimated	5	Ø20x80	<10mm@100m	375	isolated	100	51
70121001	DF520-10-24(12X40)	520	10	3B	F - 0.7	collimated	24	Ø12x40	<8mm@10m	100	VDD(+)	100	58
70121018	DG520-12-24(12X40)	520	12	3B	G - 0.8	collimated	24	Ø12x40	<8mm@10m	50	isolated	100	58
70118469	DG520-12-5(8X35)-QCW	520	12	3B	G - 0.8	collimated	5	Ø8x35	<8mm@10m	180	isolated	100	45
70126990	DD532-0.4-24(20X80)-F500	532	0.4	1	D - 0.5	fixed (500mm)	24	Ø20x80	<1.5mm@0.5m	11	isolated	300	43
70117769	DD532-0.4-3(16X60)	532	0.4	1	D - 0.5	collimated	3	Ø16x60	<3..5mm@10m	160	isolated	100	55
70125702	DD532-1-3(12X45)-PRO	532	1	2	D - 0.5	collimated	3	Ø12x45	4..5mm@3m	250	isolated	100	63
70108835	DD532-1-3(20X80)-AP-C280	532	1	2	D - 0.5	collimated	3	Ø20x80	<5mm@10m	180	isolated	280	45
70108859	DD532-1-3(20X80)-AP-C300	532	1	2	D - 0.5	collimated	3	Ø20x80	<5mm@10m	250	isolated	300	45
70116731	MD532-1-5(20X80)	532	1	2	D - 0.5	collimated	5	Ø20x80	<3..5mm@10m	150	isolated	100	46
70125818	DD532-1-3(20X80)-AP-CON-NT	532	1	2	D - 0.5	collimated	3	Ø20x80	<3.5..5mm@10m	160	isolated	100	online
70124286	DD532-1-24(20X80)	532	1	2	D - 0.5	collimated	24	Ø20x80	<3.5..5mm@10m	11	isolated	100	43
70122305	DD532-1-3(22X105)-S-AP	532	1	2	D - 0.5	collimated	3	Ø22x105	<3.5mm@5m	150			69
70125764	DD532-1-3-F(12X50)	532	1	2M	D - 0.5	adjustable	3	Ø12x50	adjustable	150	isolated	100	50
70107272	DD532-1-3(20X80)-AP	532	1	2	D - 0.5	collimated	3	Ø20x80	<3.5..5mm@10m	160	isolated	100	43
70107715	DD532-1-3(16X60)	532	1	2	D - 0.5	collimated	3	Ø16x60	<3..5mm@10m	160	isolated	100	55
70102307	DJ532-1-3(20X80)	532	1	2	J - 2.0	fixed (10mm)	3	Ø20x80	0.15mm@10mm	250	isolated	100	37
70104868	DA532-1-3(20X95)-01607	532	1	2	0.2	collimated	3	Ø20x95	9.5@40m	180	isolated	100	55
70100037	DA532-1-3(20X95)	532	1	2	A - 0.1	collimated	3	Ø20x95	<9.5mm@40m	200	isolated	100	55
70100853	DD532-1-3(20X80)	532	1	2	D - 0.5	collimated	3	Ø20x80	<4mm@10m	160	isolated	100	58
70100860	DD532-1-5(21X21X50)	532	1	2	D - 0.5	collimated	5	21x21x50	<5mm@5m	250	isolated	280	41
70129700	DB532-1-3(13X60)-F5000	532	1	2	0.3	fixed (5.0m)	3	Ø13x60	4mm@5m	300	VDD(+)	127	online
70108460	DD532-2-3(16X60)-AP	532	2	3R	D - 0.5	collimated	3	Ø16x60		250	isolated	100	52
70101072	DD532-3-3(16X60)	532	3	3R	D - 0.5	collimated	3	Ø16x60	<3..5mm@10m	250	isolated	100	69
70101089	DD532-3-5(21X21X50)	532	3	3R	D - 0.5	collimated	5	21x21x50	<5mm@5m	250	isolated	280	41
70101126	DD532-5-5(21X21X50)	532	5	3R	D - 0.5	collimated	5	21x21x50	<5mm@5m	250	isolated	280	41
70114904	MD532-5-5-F(22X80)	532	5	3R	D - 0.5	adjustable	5	Ø22x80	adjustable	250	isolated	100	40
70102314	DJ532-5-3(20X80)	532	5	3R	J - 2.0	fixed (10mm)	3	Ø20x80	0.15mm@10mm	250	isolated	100	37
70105810	DD532-5-5-F(22X80)	532	5	3R	D - 0.5	adjustable	5	Ø22x80	adjustable	160	isolated	100	40
70120073	DOE260-532-5-3-S(22X112)-AP	532	5	2	E - 0.6	fixed (4.0m)	3	Ø22x112	<0,5mm@0,4m	150	VDD(+)		44
70120066	DOE532-5-3-S(22X112)-F400	532	5	3R	E - 0.6	fixed (4.0m)	3	Ø22x112	<0,5mm@0,4m	150	VDD(+)		44
70101119	DD532-5-3(20X80)	532	5	3R	D - 0.5	collimated	3	Ø20x80	<4mm@10m	200	isolated	100	71
70112795	DD532-5-3-F(12X50)	532	5	3R	D - 0.5	adjustable	3	Ø12x50	adjustable	200	isolated	100	50
70100280	DA532-5-3(20X95)	532	5	3R	0.2	collimated	3	Ø20x95	<4mm@10m	250	isolated	100	36
70100044	DD532-5-3(16X60)	532	5	3R	D - 0.5	collimated	3	Ø16x60	<4..5mm@10m	250	isolated	100	52
70101218	DD532-10-3(20X80)	532	10	3B	D - 0.5	collimated	3	Ø20x80	<3..5mm@10m	250	isolated	100	58

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Punktlaser | Dot Laser

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Focus	Operating Voltage V DC	Size mm	Size of Laserdot	Operating Current mA	Potential of Housing	Cable length mm	Page
70100327	DA532-10-3(20X95)	532	10	3B	A - 0.1	collimated	3	Ø20x95	<4mm@10m	300	isolated	100	36
70102321	DJ532-10-3(20X80)	532	10	3B	J - 2.0	fixed (10mm)	3	Ø20x80	0.15mm@10mm	300	isolated	100	37
70104820	DJ532-10-3(10X12)-P	532	10	3B	J - 2.0	fixed (10mm)	3	Ø10x12	0.15mm@10mm	200	VDD(+)	140	online
70121513	DD532-10-3-F(12X55)-CON-DOE	532	10	3B	D - 0.5	adjustable	3	Ø12x55	adjustable	350		200	online
70101225	DD532-10-5(21X21X50)	532	10	3B	D - 0.5	collimated	5	21x21x50	<5mm@5m	350	isolated	280	41
70105834	DD532-10-5-F(22X80)	532	10	3B	D - 0.5	adjustable	5	Ø22x80	adjustable	300	VDD(+)	100	40
70100372	DA532-15-3(20X95)	532	15	3B	A - 0.1	collimated	3	Ø20x95	<4mm@10m	350	isolated	100	36
70102338	DJ532-15-3(20X80)	532	15	3B	J - 2.0	collimated	3	Ø20x80	0.15mm@10mm	350	isolated	100	37
70109122	DA532-15-5-F(22X80)	532	15	3B	A - 0.1	adjustable	5	Ø22x80	adjustable	250	isolated	100	40
70114980	MD532-15-5(20X80)	532	15	3B	D - 0.5	collimated	5	Ø20x80	<3..5mm@10m	250	isolated	100	46
70105827	DD532-15-5-F(22X80)	532	15	3B	D - 0.5	adjustable	5	Ø22x80	adjustable	300	isolated	100	40
70101287	DD532-15-3(20X80)	532	15	3B	D - 0.5	collimated	3	Ø20x80	<3..5mm@10m	250	VDD(+)	100	46
70101324	DD532-20-3(20X80)	532	20	3B	D - 0.5	collimated	3	Ø20x80	<5mm@10m	300	isolated	100	45
70102345	DJ532-20-3(20X80)	532	20	3B	J - 2.0	collimated	3	Ø20x80	0.15mm@10mm	400	isolated	100	37
70102352	DJ532-25-3(20X80)	532	25	3B	J - 2.0	collimated	3	Ø20x80	0.15mm@10mm	370	isolated	100	37
70103038	DD532-25-3(25X60)	532	25	3B	D - 0.5	collimated	3	Ø25x60	<3..5mm@10m	350	VDD(+)	100	68
70121490	DOE-D532-30-3-F(20X90)	532	30	3B	D - 0.5	adjustable	3	Ø20x90	adjustable	300	isolated	200	online
70102369	DJ532-30-3(20X80)	532	30	3B	J - 2.0	collimated	3	Ø20x80	0.15mm@10mm	450	isolated	100	37
70101423	DD532-30-3(20X80)	532	30	3B	D - 0.5	collimated	3	Ø20x80	<3..5mm@10m	400	isolated	100	43
70103045	DD532-30-5(25X60)	532	30	3B	D - 0.5	collimated	5	Ø25x60	<4..5mm@10m	400	isolated	100	72
70101461	DD532-50-5(85X50X40)	532	50	3B	D - 0.5	collimated	5	85x50x40	4mm@10m	450	isolated	100	64
70107135	DA532-50-5(85X50X40)	532	50	3B	A - 0.1	collimated	5	85x50x40	4mm@10m	500	isolated	100	73
70126228	DI635-0.2-3(8X21)	635	0.2	1	I - 1.5	fixed (5.0m)	3	Ø8x21	<3..5mm@5m	20	isolated	100	33
70118063	DD635-0.4-24(12X45)	635	0.4	1	D - 0.5	adjustable	24	Ø12x45	adjustable	5	isolated	100	online
70118278	DI635-0.4-3(8X17)-AP	635	0.4	1	I - 1.5	collimated	3	Ø8x17	<3..5mm@5m	35	VDD(+)	100	online
70112955	DD635-0.4-3(12X34)	635	0.4	1	D - 0.5	adjustable	3	Ø12x34	adjustable	25	VDD(+)	100	32
70104127	DI635-0.4-3(8X21)	635	0.4	1	I - 1.5	fixed (5.0m)	3	Ø8x21	<3..5mm@5m	35	isolated	100	33
70114157	DI635-0.4-5(8X21)-AP	635	0.4	1	I - 1.5	collimated	5	Ø8x21	<3..5mm@5m	28		100	33
70121902	DD635-0.9-27(12X50)-III	635	0.85	2	D - 0.5	fixed (10.0m)	24	Ø12x50	<6mm@10m	10	isolated	100	online
70120677	DD635-0.9-24(12X45)	635	0.9	2	D - 0.5	collimated	24	Ø12x45	<2mm@2m	10	isolated	100	online
70112443	DA635-1-5-F(12X60)	635	1	2	0.2	adjustable	5	Ø12x60	adjustable	31	isolated	100	42
70116328	DB635-1-3-FA(14X45)-F10000	635	1	2	B - 0.3	fixed (10.0m)	3	Ø14x45	<3..4mm@10m	40	isolated	120	34
70119930	DI635-1-12(12X45)-F100-AP	635	1	2	I - 1.5	fixed (100mm)	12	Ø12x45	<0.3mm@0.1m	20	isolated	100	78
70100099	DA635-1-3(16X58)	635	1	2	0.2	collimated	3	Ø16x58	<9.5mm@40m	40	isolated	100	75
70100211	DA635-1-3(11X60)	635	1	2	0.2	collimated	3	Ø11x60	<9.5mm@40m	30	isolated	100	39
70100563	DI635-1-3(8X21)	635	1	2	I - 1.5	collimated	3	Ø8x21	<3..5mm@5m	35	isolated	100	33
70113174	DB635-1-3-FA(14X45)-ADJ	635	1	2	B - 0.3	adjustable	3	Ø14x45	adjustable	32	isolated	100	35
70117684	DI635-1-5(9X21)-F100-AP	635	1	2	I - 1.5	fixed (100mm)	5	Ø9x21	<0.3mm@0.1m	27	isolated	100	49
70109856	DB635-1-FA(14X45)-AP-C300-NO-D	635	1	2	B - 0.3	fixed (20.0m)		Ø14x45	<5..7mm@20m	25	isolated	300	34
70100242	DB635-1-3-FA(14X45)	635	1	2	B - 0.3	fixed (10.0m)	3	Ø14x45	<3..4mm@10m	32	isolated	100	34
70107333	DB635-1-3-FA(14X45)-AP	635	1	2	B - 0.3	fixed (10.0m)	3	Ø14x45	<3..4mm@10m	37	isolated	100	34
70116519	DD635-1-6(12X34)	635	1	2	D - 0.5	adjustable	6	Ø12x34	adjustable	26	isolated	100	32
70113839	MDA635-1-5-F(12X60)	635	1	2	A - 0.1	adjustable	5	Ø12x60	adjustable	40	isolated	100	42
70123760	DC635-1-4.5(14X64)-RS-AP	635	1	2	C - 0.4	fixed (5.0m)	4.5	Ø14x64	<3mm@5m	30	VDD(+)		42
70106664	DB635-1-3-FA(14X45)-F7000	635	1	2	B - 0.3	fixed (7.0m)	3	Ø14x45	<2..3mm@7m	31	isolated	120	34
70114812	DB635-1-3-FA(14X45)-F20000	635	1	2	B - 0.3	fixed (20.0m)	3	Ø14x45	<2..3mm@20m	32	isolated	100	34
70113204	DDI635-1-24(12X45)-C500	635	1	2	D - 0.5	adjustable	24	Ø12x45	adjustable	7	isolated	500	48
70118254	DDI635-1-24(12X45)-C5000	635	1	2	D - 0.5	adjustable	24	Ø12x45	adjustable	5	isolated	5000	48
70116878	DB635-1-3-FA(22X105)-S-AP	635	1	2	B - 0.3	fixed (5.0m)	3	Ø22x105	<3.5mm@5m	30			43
70115956	DDI635-1-24(12X45)-C3000	635	1	2	D - 0.5	adjustable	24	Ø12x45	adjustable	5	isolated	3000	48
70116359	MDD635-1-5(12.7X34)	635	1	2	D - 0.5	collimated	5	Ø12.7x34		30	isolated	150	47
70109306	DD635-1-3(21X21X50)	635	1	2	D - 0.5	collimated	3	21x21x50	<5mm@5m	25	isolated	100	79
70105582	DD635-1-5(12X34)	635	1	2	D - 0.5	adjustable	5	Ø12x34	adjustable	25	isolated	100	34
70100471	DD635-1-3(12X25)	635	1	2	D - 0.5	collimated	3	Ø12x25	<3mm@5m	26	isolated	100	37
70107586	DD635-1-5(12X25)	635	1	2	D - 0.5	collimated	5	Ø12x25	<2..3mm@5m	31	isolated	100	37
70119534	DE635-1-3-F-S(22X100)	635	1	2	E - 0.6	adjustable	3	Ø22x100	adjustable	30	VDD(+)		online
70100488	DD635-1-3(12X34)	635	1	2	D - 0.5	adjustable	3	Ø12x34	adjustable	25	isolated	100	32
70106596	DD635-1-5(12X25)15MMAT1000MM	635	1	2	D - 0.5	fixed (1000mm)	5	Ø12x25	<15mm@1m	25	isolated	100	37
70109481	DB635-1-3-FA(14X45)-F50-AP	635	1	2	B - 0.3	fixed (50mm)	3	Ø14x45	<0.3mm@0.05m	40	isolated	100	online

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Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Focus	Operating Voltage V DC	Size mm	Size of Laserdot	Operating Current mA	Potential of Housing	Cable length mm	Page
70120448	DD635-1-24(12X50)-WP	635	1	2	D - 0.5	collimated	24	Ø12x50	4..6mm@10	10	isolated	200	online
70120479	DI635-1-12(12X45)-AP-F100	635	1	2	I - 1.5	collimated	12	Ø12x45	<0,3mm@100mm	20	isolated	140	online
70129618	DA635-2-3(13X43.5)-F40000-C127	635	2	3R	0.2	fixed (40.0m)	3	Ø13x43.5	<16mm@40m	25	VDD(+)	127	52
70100679	DA635-2-3(16X58)	635	2	3R	0.2	collimated	3	Ø16x58	<4mm@10m	65	isolated	100	online
70100648	DA635-2-3(11X60)	635	2	3R	0.2	collimated	3	Ø11x60	<7mm@20m	50	isolated	100	39
70100723	DC635-2.2-3(12X34)	635	2.2	3R	C - 0.4	adjustable	3	Ø12x34	adjustable	40	isolated	100	34
70100112	DC635-2.2-3(8X25)	635	2.2	3R	C - 0.4	adjustable	3	Ø8x25	adjustable	45	isolated	100	35
70106831	DI635-2.5-5(8X21)-NO-MONITOR	635	2.5	3R	I - 1.5	collimated	5	Ø8x21	<3..4mm@5m	40	isolated	100	39
70105407	DI635-2.5-5(8X21)	635	2.5	3R	I - 1.5	collimated	5	Ø8x21	<2-3mm@1m	45	isolated	100	39
70100846	DD635-2.5-3(12X34)	635	2.5	3R	D - 0.5	adjustable	3	Ø12x34	adjustable	40	isolated	100	32
70100631	MB635-3-5(16X45)	635	3	3R	B - 0.3	adjustable	5	Ø16x45	adjustable	25	isolated	100	40
70101560	DG635-3-3(12X34)	635	3	3R	G - 0.8	adjustable	3	Ø12x34	adjustable	35	isolated	100	34
70109368	DDI635-3-5(12X34)	635	3	3R	D - 0.5	adjustable	5	Ø12x34	adjustable	45	isolated	100	34
70110142	DDI635-3-5(12X34)-C500	635	3	3R	D - 0.5	adjustable	5	Ø12x34	adjustable	45	isolated	500	34
70101171	DB635-3-3(16X45)	635	3	3R	B - 0.3	adjustable	3	Ø16x45	adjustable	40	isolated	100	40
70101317	DF635-3-3(12X34)	635	3	3R	F - 0.7	adjustable	3	Ø12x34	adjustable	40	isolated	100	54
70101201	DE635-3-3(12X34)	635	3	3R	E - 0.6	adjustable	3	Ø12x34	adjustable	40	isolated	100	34
70108613	DB635-3-3-FA(14X45)-AP	635	3	3R	B - 0.3	fixed (10.0m)	3	Ø14x45	<3..4mm@10m	60	isolated	100	34
70101638	DH635-4-3(12X34)	635	4	3R	H - 1.0	adjustable	3	Ø12x34	adjustable	40	isolated	100	32
70109917	DB635-4-FA(14X45)-AP-C300-NO-D	635	4	3R	B - 0.3	fixed (10.0m)		Ø14x45	<3..4mm@10m	45	isolated	300	34
70101621	DC635-4-3(12X34)	635	4	3R	C - 0.4	adjustable	3	Ø12x34	adjustable	65	isolated	100	32
70101751	MH635-4-5(14X45)	635	4	3R	H - 1.0	adjustable	5	Ø14x45	adjustable	45	isolated	100	35
70101669	DDI635-5-3(12X34)	635	5	3R	D - 0.5	adjustable	3	Ø12x34	adjustable	50	isolated	100	32
70109597	DDI635-5-5(12X34)	635	5	3R	D - 0.5	adjustable	5	Ø12x34	adjustable	50	isolated	100	34
70121568	DOE635-5-3-S(22X112)	635	5	3R	E - 0.6	fixed (4.0m)	3	Ø22x112	<0,5mm@0,4m	60	VDD(+)		44
70116632	DI635-5-5(9X21)-F100-AP	635	5	3R	I - 1.5	fixed (100mm)	5	Ø9x21	<0.3mm@0.1m	60	isolated	100	49
70114850	DB635-5-5-FA(14X45)	635	5	3R	B - 0.3	fixed (10.0m)	5	Ø14x45	<3..4mm@10m	60	isolated	100	34
70101720	DI635-5-3(8X21)	635	5	3R	I - 1.5	collimated	3	Ø8x21	<3..5mm@5m	50	isolated	100	33
70108958	MDI635-5-5(12X34)	635	5	3R	I - 1.5	adjustable	5	Ø12x34	adjustable	50	isolated	100	32
70109221	DDI635-5-5(12X25)	635	5	3R	D - 0.5	collimated	5	Ø12x25	<4mm@5m	60	isolated	100	37
70117455	DA635-5-3(14X45)70117455	635	5	3R	A - 0.1	collimated	3	Ø14x45	<2mm@20cm	110	isolated	100	63
70106770	DD635-5-5(12X25)-F2000	635	5	3R	D - 0.5	fixed (2000mm)	5	Ø12x25	<1..2mm@2m	60	isolated	100	37
70117097	DH635-5-3(14X45)-70117097	635	5	3R	H - 1.0	collimated	3	Ø14x45		45	isolated	100	75
70125580	DB635-5-3-FA(14X48)-ADJ	635	5	3R	B - 0.3	adjustable	3	Ø14x48	adjustable	60	isolated	100	72
70101782	DE635-6-3(12X34)	635	6	3B	E - 0.6	adjustable	3	Ø12x34	adjustable	60	isolated	100	34
70101836	DG635-6-3(12X34)	635	6	3B	G - 0.8	adjustable	3	Ø12x34	adjustable	50	isolated	100	32
70101904	DH635-7-3(12X34)	635	7	3B	H - 1.0	adjustable	3	Ø12x34	adjustable	50	isolated	100	34
70116601	DA635-8-24(20X95)	635	8	3B	A - 0.1	collimated	24	Ø20x95	<9.5mm@40m	40	isolated	100	36
70116595	DA635-8-5(20X95)	635	8	3B	A - 0.1	collimated	5	Ø20x95	<9.5mm@40m	120	isolated	100	36
70121353	DOE-D638-60-3-F(20X100)	638	60	3B	D - 0.5	adjustable	3	Ø20x100	adjustable	120	isolated	200	65
70103946	CSDI650-0.1-5-F100	650	0.1	1	I - 1.5	fixed (100mm)	5	Ø8x21	<0.3mm@0.1m	40	isolated	100	39
70103953	DI650-0.3-5(8X21)-F100	650	0.3	1	I - 1.5	fixed (100mm)	5	Ø8x21	<0.3mm@0.1m	19	isolated	100	39
70118001	DD650-0.4-3(12X34)	650	0.4	1	D - 0.5	adjustable	3	Ø12x34	adjustable	18	VDD(+)	100	34
70117004	DB650-0.4-3-FA(22X105)-S-AP	650	0.4	1	B - 0.3	fixed (5.0m)	3	Ø22x105	<3.5mm@5m	20	VDD(+)		43
70120462	DC650-0.4-24(12X45)-C5000	650	0.4	1	C - 0.4	collimated	24	Ø12x45	<4mm@5m	5	isolated	5000	48
70121889	DC650-0.4-4.5(14X64)-S-AP	650	0.4	1	C - 0.4	fixed (5.0m)	4.5	Ø14x64	<3mm@5m	20	VDD(+)		42
70125061	DI650-0.4-3(8X21)-F61	650	0.4	1	I - 1.5	fixed (61mm)	3	Ø8x21	<0.5mm@0.061m	20	isolated	100	47
70125795	DC650-0.4-4.5(14X64)-S-AP-F150	650	0.4	1	C - 0.4	fixed (150mm)	4.5	Ø14x64	<1mm@0.15m	20	VDD(+)		42
70114843	DC650-0.4-3(8X25)	650	0.4	1	C - 0.4	adjustable	3	Ø8x25	adjustable	18	isolated	100	35
70121582	DI650-0.4-3(8X21)-AP	650	0.4	1	I - 1.5	collimated	3	Ø8x21	<3..5mm@5m	18	isolated	100	53
70121315	DI650-0.4-3(5X12)	650	0.4	1	I - 1.5	collimated	3	Ø5x12	3..4mm@5m	22	GND(-)	100	56
70132205	DC650-0.4-24(12X45)-C10000	650	0.4	1	C - 0.4	collimated	24	Ø12x45	<4mm@5m	5	isolated	10000	48
70120240	DI650-0.4-3(5X12)-F100	650	0.4	1	I - 1.5	fixed (100mm)	3	Ø5x12	0.3mm@100mm	15	GND(-)	100	56
70104264	DI650-0.4-3(8X21)	650	0.4	1	I - 1.5	fixed (5.0m)	3	Ø8x21	<3..5mm@5m	20	isolated	100	33
70105803	DI650-0.4-5(8X21)	650	0.4	1	I - 1.5	collimated	5	Ø8x21	<3..5mm@5m	20	isolated	100	33
70129472	DJ650-0.7-3(4X15)-F5000-C127	650	0.7	2	2.5	fixed (5.0m)	3	Ø4x15	7mm@5m	25	VDD(+)	127	53
70120905	MI650-1-5(8X21)-F70	650	1	2	I - 1.5	fixed (7mm)	5	Ø8x21	<0,8mm@0,07mm	19	isolated	100	33
70125542	DI650-1-5(8X21)-AP-C	650	1	2	I - 1.5	collimated	5	Ø8x21	<3..5mm@5m	23	isolated	100	77
70103250	MI650-1-5(8X21)	650	1	2	I - 1.5	collimated	5	Ø8x21	<3..5mm@5m	20	isolated	100	33

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Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Focus	Operating Voltage	Size	Size of Laserdot	Operating Current	Potential of Housing	Cable length	Page
		nm	mW		mrad		V DC	mm		mA		mm	
70105322	DI650-1-3(5X12)	650	1	2	I - 1.5	collimated	3	Ø5x12	<3..5mm@5m	17	GND(-)	100	74
70113303	DBI650-1-3-FA(12X40)-F3400	650	1	2	B - 0.3	fixed (3.4m)	3	Ø12x40	<1.25mm@3.4m	21	isolated	120	70
70125870	DI650-1-5(10X50)	650	1	2	I - 1.5	collimated	5	Ø10x50	<3..5mm@10m	22	isolated	1700	66
70105506	DG650-1-5(12X34)	650	1	2	G - 0.8	adjustable	5	Ø12x34	adjustable	20	isolated	100	54
70100594	DI650-1-3(8X21)	650	1	2	I - 1.5	collimated	3	Ø8x21	<3..5mm@5m	30	isolated	100	47
70110319	MI650-1-5(8X21)-F700-AP	650	1	2	I - 1.5	fixed (700mm)	5	Ø8x21	<0.3mm@0.7m	20	isolated	100	33
70115659	DI650-1-3(8X30)-C300-AP	650	1	2	I - 1.5	collimated	3	Ø8x30	<3..5mm@5m	25	isolated	300	65
70100501	DG650-1-3(12X34)	650	1	2	G - 0.8	adjustable	3	Ø12x34	adjustable	20	isolated	100	32
70125993	DC650-1-3(8X25)-HT-CON-JST	650	1	2	C - 0.4	collimated	3	Ø8x25	<6mm@10m	20	isolated	200	64
70106206	DI650-1-3(9X21)-F1000-AP	650	1	2	I - 1.5	fixed (1000mm)	3	Ø9x21	<1.5mm@1m	20		100	49
70103786	DI650-1-3(8X21)-ADJ	650	1	2	I - 1.5	adjustable	3	Ø8x21	adjustable	20	isolated	100	57
70120226	DC650-1-3(20X20X80)-S-AP	650	1	2	C - 0.4	collimated	3	20x20x80	5mm@20m	20	VDD(+)		online
70114331	DC650-1-3(8X25)-C500	650	1	2	C - 0.4	adjustable	3	Ø8x25	adjustable	20	isolated	500	35
70121612	DG650-1-3(8X20)-ITA	650	1	2	G - 0.8	collimated	3	Ø8x20	<4..6mm@5m	25	isolated	150	online
70108583	MI650-1-5(8X21)-AP	650	1	2	I - 1.5	collimated	5	Ø8x21	<2..3mm@5m	25		100	57
70116007	DG650-1-3(7X14)-ADJ	650	1	2	G - 0.8	adjustable	3	Ø7x14	adjustable	20	VDD(+)	100	57
70104905	MD650-1-5(12X34)	650	1	2	D - 0.5	adjustable	5	Ø12x34	adjustable	22	isolated	100	32
70107111	DG650-1-3(7X14)-ADJ-C50	650	1	2	G - 0.8	adjustable	3	Ø7x14	adjustable	25	VDD(+)	50	57
70109979	DI650-1-5(8X21)-AP	650	1	2	I - 1.5	collimated	5	Ø8x21	<3..5mm@5m	23	isolated	100	53
70100068	DC650-1-3(8X25)	650	1	2	C - 0.4	adjustable	3	Ø8x25	adjustable	19	isolated	100	35
70104349	DI650-1-5(8X21)	650	1	2	I - 1.5	collimated	5	Ø8x21	<3..5mm@5m	22	isolated	100	33
70125719	DI650-1-3(8X21)-F500-C350-AP	650	1	2	I - 1.5	fixed (500mm)	3	Ø8x21	<1mm@0.5m	28	VDD(+)	350	41
70112726	DC650-1-3(8X25)-C500-70112726	650	1	2	C - 0.4	adjustable	3	Ø8x25	adjustable	22	isolated	500	35
70122114	DC650-1-3(8X25)-HT	650	1	2	C - 0.4	collimated	3	Ø8x25	<6mm@10m	20	isolated	400	35
70122350	MD650-1-5(12X34)-F10000	650	1	2	D - 0.5	collimated	5	Ø12x34	5mm@10m	20	isolated	100	38
70107647	DG650-1-5(7X14)-F35	650	1	2	G - 0.8	fixed (35mm)	5	Ø7x14	<0.3mm@0.035m	20	VDD(+)	100	38
70108637	DG650-1-5(7X14)-F35-C125	650	1	2	G - 0.8	fixed (35mm)	5	Ø7x14	<0.3mm@0.035m	25	VDD(+)	125	38
70123333	DG650-1-3(7X14)-F500-10KH	650	1	2	G - 0.8	fixed (500mm)	3	Ø7x14	<1mm@0.5m	28	VDD(+)	1000	38
70107388	DG650-1-5(7X14)	650	1	2	G - 0.8	collimated	5	Ø7x14	<3..5mm@5m	20	VDD(+)	100	38
70103069	DG650-1-3(7X14)	650	1	2	G - 0.8	collimated	3	Ø7x14	<4..6mm@5m	20	VDD(+)	100	38
70129373	DG650-1-3(7X14)-C400	650	1	2	G - 0.8	collimated	3	Ø7x14	<4..6mm@5m	20	VDD(+)	400	38
70117646	DG650-1-3(7X14)-70117646	650	1	2	G - 0.8	collimated	3	Ø7x14	<4..6mm@5m	25	VDD(+)	250	38
70100051	DA650-1-3(11X60)	650	1	2	0.2	collimated	3	Ø11x60	<9.5mm@40m	25	VDD(+)	100	39
70110517	DA650-1-5(11X60)	650	1	2	A - 0.1	collimated	5	Ø11x60	<9.5mm@40m	40	isolated	100	39
70106220	DB650-1-3-FA(14X45)-AP	650	1	2	B - 0.3	fixed (10.0m)	3	Ø14x45	3..4mm@10m	23	isolated	100	34
70103779	DI650-1-5(8X21)-F100	650	1	2	I - 1.5	fixed (100mm)	5	Ø8x21	<0.3mm@0.1m	22	isolated	100	41
70106695	DI650-1-5(8X21)-C180	650	1	2	I - 1.5	collimated	5	Ø8x21	<3..4mm@5m	25	isolated	180	33
70116861	DB650-1-3-FA(22X105)-S-AP	650	1	2	B - 0.3	fixed (5.0m)	3	Ø22x105	<3.5mm@5m	19	VDD(+)		43
70116076	DC650-1-4.5(14X64)-S-AP	650	1	2	C - 0.4	fixed (5.0m)	4.5	Ø14x64	<3mm@5m	20	VDD(+)		42
70100259	DB650-1-3-FA(14X45)	650	1	2	B - 0.3	fixed (10.0m)	3	Ø14x45	<4mm@10m	21	isolated	100	44
70129489	DJ650-2-3(4X15)-F5000-C127	650	2	3R	2.5	fixed (5.0m)	3	Ø4x15	7mm@5m	30	VDD(+)	127	53
70100716	DA650-2-3(16X58)	650	2	3R	0.2	collimated	3	Ø16x58	<9.5mm@40m	30	isolated	100	73
70100792	DC650-2.2-3(8X25)	650	2.2	3R	C - 0.4	adjustable	3	Ø8x25	adjustable	25	isolated	100	35
70100730	DC650-2.2-3(12X34)	650	2.2	3R	C - 0.4	adjustable	3	Ø12x34	adjustable	25	isolated	100	32
70100907	DD650-2.5-3(12X34)	650	2.5	3R	D - 0.5	adjustable	3	Ø12x34	adjustable	25	isolated	100	32
70129625	DA650-2.5-3(13X43.5)-F40000-C127	650	2.5	3R	0.2	fixed (40.0m)	3	Ø13x43.5	<16mm@40m	35	VDD(+)	127	52
70101058	DI650-2.5-3(8X21)	650	2.5	3R	I - 1.5	collimated	3	Ø8x21	<3..5mm@5m	25	isolated	100	41
70102833	DDI650-2.5-5(12X25)	650	2.5	3R	D - 0.5	collimated	5	Ø12x25	<2..3mm@5m	25	isolated	100	37
70100839	DB650-2.5-3-FA(14X45)	650	2.5	3R	B - 0.3	fixed (5.0m)	3	Ø14x45	<4mm@5m	30	isolated	100	44
70119862	DD650-2.5-12(12X34)	650	2.5	3R	D - 0.5	collimated	12	Ø12x34	<3mm@5m	27	isolated	100	online
70100891	DD650-2.5-3(12X25)	650	2.5	3R	D - 0.5	collimated	3	Ø12x25	<3mm@5m	20	isolated	100	37
70109603	MD650-3-5(12X34)	650	3	3R	D - 0.5	adjustable	5	Ø12x34	adjustable	25	VDD(+)	100	34
70115376	DDI650-3-5(14X30)	650	3	3R	D - 0.5	fixed	5	Ø14x30		40	isolated	100	46
70101515	DF650-3-3(12X34)	650	3	3R	F - 0.7	adjustable	3	Ø12x34	adjustable	25	isolated	100	32
70101539	ME650-3-5(16X50)	650	3	3R	E - 0.6	adjustable	5	Ø16x50	adjustable	25		100	56
70101188	DB650-3-3(16X32)	650	3	3R	B - 0.3	adjustable	3	Ø16x32	adjustable	25	isolated	100	61
70101584	DG650-3-3(12X34)	650	3	3R	G - 0.8	adjustable	3	Ø12x34	adjustable	25	isolated	100	32
70116663	DDI650-3-5(14X30)-C170	650	3	3R	D - 0.5	fixed	5	Ø14x30		40	isolated	170	46
70100655	MB650-3-5(16X50)	650	3	3R	B - 0.3	adjustable	5	Ø16x50	adjustable	25	isolated	100	online

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Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Focus	Operating Voltage	Size	Size of Laserdot	Operating Current	Potential of Housing	Cable length	Page
		nm	mW		mrad		V DC	mm		mA		mm	
70101812	MH650-4-5(14X45)	650	4	3R	H - 1.0	adjustable	5	Ø14x45	adjustable	25	isolated	100	35
70101645	DH650-4-3(12X34)	650	4	3R	H - 1.0	adjustable	3	Ø12x34	adjustable	30	VDD(+)	100	32
70102772	DC650-4.5-6(10X27)	650	4.5	3R	C - 0.4	adjustable	6	Ø10x27	adjustable	30	isolated	100	59
70101676	DD650-5-3(12X34)	650	5	3R	D - 0.5	adjustable	3	Ø12x34	adjustable	30	isolated	100	32
70112924	AMH650-5-5(14X45)	650	5	3R	H - 1.0	adjustable	5	Ø14x45	adjustable	30	isolated	100	35
70112566	DI650-5-3(8X21)-AP	650	5	3R	I - 1.5	fixed (1000mm)	3	Ø8x21	<2.5mm@1m	30		100	41
70115048	MI650-5-5(10X21)	650	5	3R	D - 0.5	collimated	5	Ø10x21	<2.5mm@1m	25	isolated	100	76
70124361	DG650-5-3(7X14)-ADJ	650	5	3R	G - 0.8	adjustable	3	Ø7x14	adjustable	32	isolated	100	online
70103168	DI650-5-3(8X21)	650	5	3R	I - 1.5	collimated	3	Ø8x21	<2mm@1.5m	35	isolated	100	41
70115086	DDI650-5-5(12X34)	650	5	3R	D - 0.5	adjustable	5	Ø12x34	adjustable	30	isolated	100	32
70105865	DG650-5-3(7X14)	650	5	3R	G - 0.8	collimated	3	Ø7x14	<4..6mm@5m	33	isolated	100	59
70115413	DDI650-7-5(14X34)	650	7	3R	D - 0.5	fixed	5	Ø14x34		60	isolated	100	66
70101881	DG650-7-3(12X34)	650	7	3B	G - 0.8	adjustable	3	Ø12x34	adjustable	80	isolated	100	38
70102031	DH650-7-3(12X34)	650	7	3B	H - 1.0	adjustable	3	Ø12x34	adjustable	32	isolated	100	38
70103151	DH650-8-3(12X34)	650	8	3B	H - 1.0	adjustable	3	Ø12x34	adjustable	60	isolated	100	32
70101959	DD650-9-3(14X45)	650	9	3B	D - 0.5	adjustable	3	Ø14x45	adjustable	55	isolated	100	35
70101911	DD650-9-3(12X34)	650	9	3B	D - 0.5	adjustable	3	Ø12x34	adjustable	120	isolated	100	38
70106787	AMH650-10-5(14X45)	650	10	3B	H - 1.0	adjustable	5	Ø14x45	adjustable	50	isolated	100	68
70109214	DDI650-10-5(12X25)	650	10	3B	D - 0.5	collimated	5	Ø12x25	<4mm@5m	55	isolated	100	37
70102048	DB650-12-3(16X45)	650	12	3B	B - 0.3	adjustable	3	Ø16x45	adjustable	50	isolated	100	40
70100082	DG650-13-3(14X45)	650	13	3B	G - 0.8	adjustable	3	Ø14x45	adjustable	80	isolated	100	35
70101973	MH650-16-5(22X65)	650	16	3B	H - 1.0	adjustable	5	Ø22x65	adjustable	120	isolated	100	33
70102178	DH650-16-3(14X45)	650	16	3B	H - 1.0	adjustable	3	Ø14x45	adjustable	55	isolated	100	35
70102055	DD650-16-3(14X45)	650	16	3B	D - 0.5	adjustable	3	Ø14x45	adjustable	60	isolated	100	35
70102161	DD650-16-3(22X65)	650	16	3B	D - 0.5	adjustable	3	Ø22x65	adjustable	120	isolated	100	33
70101935	MH650-16-5(14X45)	650	16	3B	H - 1.0	adjustable	5	Ø14x45	adjustable	120	isolated	100	67
70101980	MH650-24-5(22X65)	650	24	3B	H - 1.0	adjustable	5	Ø22x65	adjustable	100	isolated	100	36
70102192	DH650-24-3(14X45)	650	24	3B	H - 1.0	adjustable	3	Ø14x45	adjustable	80	isolated	100	35
70123128	DD650-25-3-F(16X50)	650	25	3B	D - 0.5	adjustable	3	Ø16x50	adjustable	100	isolated	100	online
70102208	DB650-25-3(16X45)	650	25	3B	B - 0.3	adjustable	3	Ø16x45	adjustable	75	isolated	100	40
70120042	DB650-30-5(16X45)	650	30	3B	B - 0.3	collimated	5	Ø16x45	<5mm@3m	100	isolated	100	online
70102253	DH650-35-3(22X65)	650	35	3B	H - 1.0	adjustable	3	Ø22x65	adjustable	120	isolated	100	33
70102260	DH650-40-3(16X50)	650	40	3B	H - 1.0	adjustable	3	Ø16x50	adjustable	80	isolated	100	51
70102062	MH650-40-5(22X65)	650	40	3B	H - 1.0	adjustable	5	Ø22x65	adjustable	90	isolated	100	36
70102277	DH650-40-3(22X65)	650	40	3B	H - 1.0	adjustable	3	Ø22x65	adjustable	120		100	36
70115680	DE650-40-3(16X50)	650	40	3B	E - 0.6	collimated	3	Ø16x50	<4.5x15mm@20m	80	isolated	100	51
70120714	DI650-50(8X21)-NO-DRIVER	650	50	3B	I - 1.5	collimated		Ø8x21	<3..4mm@5m	70			39
70116342	MDD658-1-5(12.7X34)	658	1	2	D - 0.5	collimated	5	Ø12.7x34		20	isolated	150	47
70120196	DD658-10-5-F(12X60)-POTI	658	10	3B	D - 0.5	adjustable	5	Ø12x60	adjustable	100	isolated	100	80
70116618	DA658-20-5(20X95)	658	20	3B	A - 0.1	collimated	5	Ø20x95	<9.5mm@40m	120	isolated	100	36
70116649	DA658-20-24(20X95)-C3000	658	20	3B	A - 0.1	collimated	24	Ø20x95	<9.5mm@40m	20	isolated	3000	36
70116625	DA658-20-24(20X95)	658	20	3B	A - 0.1	collimated	24	Ø20x95	<9.5mm@40m	40	isolated	100	36
70123982	MDC658-40-5(14X45)	658	40	3B	C - 0.4	collimated	5	Ø14x45	3mm@10mm	130	isolated	250	online
70123890	DC658-40-5(12X31)	658	40	3B	C - 0.4	collimated	5	Ø12x31	3mm@10m	110	isolated	250	60
70109320	DH658-60-3(22X65)	658	60	3B	H - 1.0	adjustable	3	Ø22x65	adjustable	100	isolated	100	36
70118568	DH658-60-3(14X45)	658	60	3B	H - 1.0	collimated	3	Ø14x45	<10mm@20m	120	isolated	100	62
70108668	DH670-1-6(12X34)	670	1	2	H - 1.0	adjustable	5	Ø12x34	adjustable	40	isolated	100	38
70118575	DA670-1-5-F(12X60)-POTI	670	1	2	A - 0.1	adjustable	5	Ø12x60	adjustable	40	isolated	100	42
70100228	DA670-1-3(11X60)	670	1	2	0.2	collimated	3	Ø11x60	<4mm@10m	30	isolated	100	39
70100624	DI670-1-3(8X21)	670	1	2	I - 1.5	collimated	3	Ø8x21	<3..5mm@5m	26	isolated	100	47
70100457	DB670-1-3-FA(14X45)	670	1	2	B - 0.3	fixed (5.0m)	3	Ø14x45	<4mm@5m	45	isolated	100	44
70116335	MDD670-1-5(12.7X34)	670	1	2	D - 0.5	collimated	5	Ø12.7x34		30	isolated	150	47
70100952	MD670-2-5(12X34)	670	2	3R	D - 0.5	adjustable	5	Ø12x34	adjustable	50	isolated	100	38
70100815	DC670-2.2-3(8X25)	670	2.2	3R	C - 0.4	adjustable	3	Ø8x25	adjustable	45	isolated	100	35
70100808	DC670-2.2-3(12X34)	670	2.2	3R	C - 0.4	adjustable	3	Ø12x34	adjustable	45	isolated	100	32
70120059	DB670-2.5-3-FA(14X45)	670	2.5	3R	B - 0.3	adjustable	3	Ø14x45	adjustable	45	isolated	2000	35
70101065	DI670-2.5-3(8X21)	670	2.5	3R	I - 1.5	collimated	3	Ø8x21	<3..5mm@5m	30	isolated	100	80
70101027	DD670-2.5-3(12X34)	670	2.5	3R	D - 0.5	adjustable	3	Ø12x34	adjustable	35	isolated	100	32
70101591	DG670-3-3(12X34)	670	3	3R	G - 0.8	adjustable	3	Ø12x34	adjustable	35	isolated	100	32

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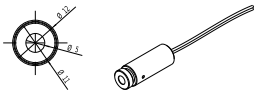
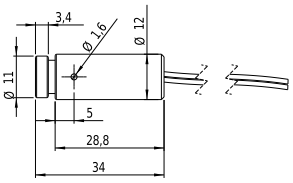
Punktlaser | Dot Laser

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Focus	Operating Voltage V DC	Size mm	Size of Laserdot	Operating Current mA	Potential of Housing	Cable length mm	Page
70101300	DE670-3-3(12X34)	670	3	3R	E - 0.6	adjustable	3	Ø12x34	adjustable	40	isolated	100	32
70101546	DF670-3-3(12X34)	670	3	3R	F - 0.7	adjustable	3	Ø12x34	adjustable	45	isolated	100	34
70101195	DB670-3-3(16X45)	670	3	3R	B - 0.3	adjustable	3	Ø16x45	adjustable	45	isolated	100	40
70100686	MB670-3-5(16X45)	670	3	3R	B - 0.3	adjustable	5	Ø16x45	adjustable	30	isolated	100	online
70108651	DH670-4-6(12X34)	670	4	3R	H - 1.0	adjustable	6	Ø12x34	adjustable	35	isolated	100	38
70101652	DH670-4-3(12X34)	670	4	3R	H - 1.0	adjustable	3	Ø12x34	adjustable	35	isolated	100	32
70102093	DH808-120-3(22X65)	808	120	3B	H - 1.0	adjustable	3	Ø22x65	adjustable	250	VDD(+)	100	33
70100754	DB808-120-3(22X65)	808	120	3B	B - 0.3	adjustable	3	Ø22x65	adjustable	250	isolated	100	49
70102123	DH808-200-3(22X65)	808	200	3B	H - 1.0	adjustable	3	Ø22x65	adjustable	350	isolated	100	33
70100761	DB808-300-3(22X65)	808	300	3B	B - 0.3	adjustable	3	Ø22x65	adjustable	550	isolated	100	49
70109023	MH808-350-5(22X65)	808	350	3B	H - 1.0	adjustable	5	Ø22x65	adjustable	500	isolated	100	33
70102147	DH808-350-3(22X65)	808	350	3B	H - 1.0	adjustable	3	Ø22x65	adjustable	600	isolated	100	36
70100778	DB808-350-3(22X65)	808	350	3B	B - 0.3	adjustable	3	Ø22x65	adjustable	750	isolated	100	49
70119695	MDH808-600-5(45X100)	808	600	4	H - 1.0	adjustable	5	Ø45x100	adjustable	900	VDD(+)	500	50
70102581	DH808-600-5(45X100)	808	600	4	H - 1.0	adjustable	5	Ø45x100	adjustable	900	VDD(+)	500	50
70103472	DH808-1200-5(45X100)	808	1200	4	H - 1.0	adjustable	5	Ø45x100	adjustable	2000	VDD(+)	500	50
70114034	MDH808-4000-5(60X110)-NT	808	4000	4	H - 1.0	adjustable	5	Ø60x110	adjustable	5000		115	online
70120202	IMD830-0.4-5(14X30)-10KHZ	830	0.4	1	D - 0.5	collimated	5	Ø14x30		15	isolated	100	46
70102680	DC850-0.4-6(10X27)	850	0.4	1	C - 0.4	adjustable	6	Ø10x27	adjustable	12	isolated	100	67
70102789	DC850-0.4-4.5(14X64)	850	0.4	1	C - 0.4	collimated	4.5	Ø14x64	<3..5mm@5m	10	VDD(+)		online
70123906	MDI850-0.7-5(8X22)	850	0.7	1	I - 1.5	collimated	5	Ø8x22	3mm@5m	15	VDD(+)	100	online
70102673	DC850-2.5-3(8X25)	850	2.5	3R	C - 0.4	adjustable	3	Ø8x25	adjustable	15	VDD(+)	100	35
70122756	MDI850-3-5(8X21)	850	3	3R	I - 1.5	collimated	5	Ø8x21	3mm@5m	15	VDD(+)	100	39
70103175	DH850-4-3(14X45)	850	4	3R	H - 1.0	adjustable	3	Ø14x45	adjustable	40		100	76
70121292	DI850-4-3(8X21)-AP	850	4	3R	I - 1.5	fixed (6.0m)	3	Ø8x21	<8mm@6m	40	VDD(+)	100	online
70114829	DA850-8-3(11X60)	850	8	3B	A - 0.1	collimated	3	Ø11x60	<9.5mm@40m	50	isolated	100	39
70102000	DH850-30-3(22X65)	850	30	3B	H - 1.0	adjustable	3	Ø22x65	adjustable	60	isolated	100	33
70102697	DH850-40-3(22X65)	850	40	3B	H - 1.0	adjustable	3	Ø22x65	adjustable	60	isolated	100	33
70122176	MDB980-0.4-5-FA(14X52)	980	0.4	1	B - 0.3	fixed (50.0m)	5	Ø14x52	<300mm@50m	12	isolated	100	74
70124774	DC980-1-3(8X25)	980	1	3R	C - 0.4	collimated	3	Ø8x25	<4..5mm@5m	15	VDD(+)	100	62
70100297	DA980-5-3(22X70)	980	5	3R	0.2	collimated	3	Ø22x70	<5mm@10m	50	isolated	100	54
70100341	DA980-10-3(22X70)	980	10	3B	0.2	collimated	3	Ø22x70		70	isolated	100	54
70101386	DD980-20-3(22X65)	980	20	3B	D - 0.5	adjustable	3	Ø22x65	adjustable	70	isolated	100	36
70106350	DE980-20-3(10X20)	980	20	3B	E - 0.6	adjustable	3	Ø10x20	adjustable	60	VDD(+)	100	online
70101379	DA980-20-3(22X70)	980	20	3B	0.2	collimated	3	Ø22x70		100	isolated	100	online
70103137	DI980-25-3(16X50)	980	25	3B	I - 1.5	adjustable	3	Ø16x50	adjustable	40	VDD(+)	100	56
70102024	DH980-30-3(22X65)	980	30	3B	H - 1.0	adjustable	3	Ø22x65	adjustable	60	isolated	100	33
70102703	DH980-40-3(22X60)	980	40	3B	H - 1.0	adjustable	3	Ø22x60	adjustable	35	isolated	100	78
70101478	DD980-80-3(22X65)	980	80	3B	D - 0.5	adjustable	3	Ø22x65	adjustable	240	isolated	100	33
70100167	DH980-120-3(22X65)	980	120	3B	H - 1.0	adjustable	3	Ø22x65	adjustable	300	isolated	100	33
70102130	DH980-200-3(22X65)	980	200	3B	H - 1.0	adjustable	3	Ø22x65	adjustable	400	isolated	100	36

Dot Laser, Ø12x34mm

Size	Ø12x34mm
Beam Shape	Dot
Material	Brass
Optics	glass lens AR coated
Output Aperture	5mm



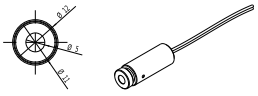


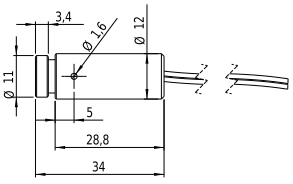
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70112955	DD635-0.4-3(12X34)	635	0.4	1	D - 0.5	adjustable	3	25	VDD(+)	100	adjustable	—	5000
70100846	DD635-2.5-3(12X34)	635	2.5	3R	D - 0.5	adjustable	3	40	isolated	100	adjustable	—	5000
70101621	DC635-4-3(12X34)	635	4	3R	C - 0.4	adjustable	3	65	isolated	100	adjustable	—	5000
70101638	DH635-4-3(12X34)	635	4	3R	H - 1.0	adjustable	3	40	isolated	100	adjustable	—	5000
70108958	MDI635-5-5(12X34)	635	5	3R	I - 1.5	adjustable	5	50	isolated	100	adjustable	200	10000
70101836	DG635-6-3(12X34)	635	6	3B	G - 0.8	adjustable	3	50	isolated	100	adjustable	—	5000
70104905	MD650-1-5(12X34)	650	1	2	D - 0.5	adjustable	5	22	isolated	100	adjustable	100	5000
70100501	DG650-1-3(12X34)	650	1	2	G - 0.8	adjustable	3	20	isolated	100	adjustable	—	5000
70100730	DC650-2.2-3(12X34)	650	2.2	3R	C - 0.4	adjustable	3	25	isolated	100	adjustable	—	5000
70115086	DDI650-5-5(12X34)	650	5	3R	D - 0.5	adjustable	5	30	isolated	100	adjustable	—	5000
70101300	DE670-3-3(12X34)	670	3	3R	E - 0.6	adjustable	3	40	isolated	100	adjustable	—	5000
70101652	DH670-4-3(12X34)	670	4	3R	H - 1.0	adjustable	3	35	isolated	100	adjustable	—	5000

Dot Laser, Ø12x34mm

- Adjustable focus

Size	Ø12x34mm
Beam Shape	Dot
Material	Brass
Optics	glass lens AR coated
Output Aperture	5mm





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70100488	DD635-1-3(12X34)	635	1	2	D - 0.5	adjustable	3	25	isolated	100	adjustable	—	5000
70116519	DD635-1-6(12X34)	635	1	2	D - 0.5	adjustable	6	26	isolated	100	adjustable	—	5000
70101669	DDI635-5-3(12X34)	635	5	3R	D - 0.5	adjustable	3	50	isolated	100	adjustable	—	5000
70100907	DD650-2.5-3(12X34)	650	2.5	3R	D - 0.5	adjustable	3	25	isolated	100	adjustable	—	5000
70101515	DF650-3-3(12X34)	650	3	3R	F - 0.7	adjustable	3	25	isolated	100	adjustable	—	5000
70101584	DG650-3-3(12X34)	650	3	3R	G - 0.8	adjustable	3	25	isolated	100	adjustable	—	5000
70101645	DH650-4-3(12X34)	650	4	3R	H - 1.0	adjustable	3	30	VDD(+)	100	adjustable	—	5000
70101676	DD650-5-3(12X34)	650	5	3R	D - 0.5	adjustable	3	30	isolated	100	adjustable	—	5000
70103151	DH650-8-3(12X34)	650	8	3B	H - 1.0	adjustable	3	60	isolated	100	adjustable	—	5000
70100808	DC670-2.2-3(12X34)	670	2.2	3R	C - 0.4	adjustable	3	45	isolated	100	adjustable	—	5000
70101027	DD670-2.5-3(12X34)	670	2.5	3R	D - 0.5	adjustable	3	35	isolated	100	adjustable	—	5000
70101591	DG670-3-3(12X34)	670	3	3R	G - 0.8	adjustable	3	35	isolated	100	adjustable	—	5000

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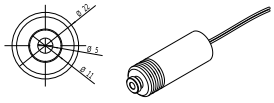
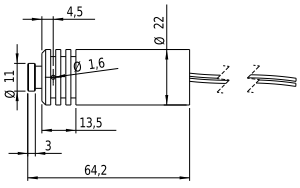
Dot Laser, Ø22x65mm

Size	Ø22x65mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Output Aperture	5mm

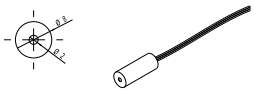


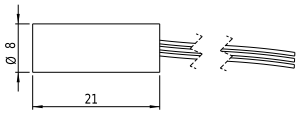


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70107845	DD405-5-6(22X65)	405	5	3R	D - 0.5	adjustable	6	35	isolated	100	adjustable	—	10000
70102161	DD650-16-3(22X65)	650	16	3B	D - 0.5	adjustable	3	120	isolated	100	adjustable	—	5000
70101973	MH650-16-5(22X65)	650	16	3B	H - 1.0	adjustable	5	120	isolated	100	adjustable	200	5000
70102253	DH650-35-3(22X65)	650	35	3B	H - 1.0	adjustable	3	120	isolated	100	adjustable	—	5000
70102093	DH808-120-3(22X65)	808	120	3B	H - 1.0	adjustable	3	250	VDD(+)	100	adjustable	—	5000
70102123	DH808-200-3(22X65)	808	200	3B	H - 1.0	adjustable	3	350	isolated	100	adjustable	—	5000
70109023	MH808-350-5(22X65)	808	350	3B	H - 1.0	adjustable	5	500	isolated	100	adjustable	20	5000
70102000	DH850-30-3(22X65)	850	30	3B	H - 1.0	adjustable	3	60	isolated	100	adjustable	—	5000
70102697	DH850-40-3(22X65)	850	40	3B	H - 1.0	adjustable	3	60	isolated	100	adjustable	—	5000
70102024	DH980-30-3(22X65)	980	30	3B	H - 1.0	adjustable	3	60	isolated	100	adjustable	—	5000
70101478	DD980-80-3(22X65)	980	80	3B	D - 0.5	adjustable	3	240	isolated	100	adjustable	—	5000
70100167	DH980-120-3(22X65)	980	120	3B	H - 1.0	adjustable	3	300	isolated	100	adjustable	—	5000

Dot Laser, Ø8x21mm

Size	Ø8x21mm
Beam Shape	Dot
Beam Diameter	2mm
Material	aluminium
Optics	glass lens AR coated
Output Aperture	2mm

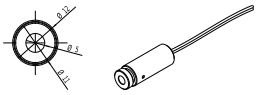


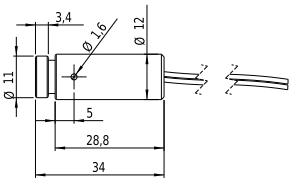


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70126228	DI635-0.2-3(8X21)	635	0.2	1	I - 1.5	<3..5mm@5m	3	20	isolated	100	fixed (5.0m)	—	5000
70104127	DI635-0.4-3(8X21)	635	0.4	1	I - 1.5	<3..5mm@5m	3	35	isolated	100	fixed (5.0m)	—	5000
70114157	DI635-0.4-5(8X21)-AP	635	0.4	1	I - 1.5	<3..5mm@5m	5	28		100	collimated	—	5000
70100563	DI635-1-3(8X21)	635	1	2	I - 1.5	<3..5mm@5m	3	35	isolated	100	collimated	—	5000
70101720	DI635-5-3(8X21)	635	5	3R	I - 1.5	<3..5mm@5m	3	50	isolated	100	collimated	—	5000
70104264	DI650-0.4-3(8X21)	650	0.4	1	I - 1.5	<3..5mm@5m	3	20	isolated	100	fixed (5.0m)	—	10000
70105803	DI650-0.4-5(8X21)	650	0.4	1	I - 1.5	<3..5mm@5m	5	20	isolated	100	collimated	—	5000
70120905	MI650-1-5(8X21)-F70	650	1	2	I - 1.5	<0,8mm@0,07mm	5	19	isolated	100	fixed (7mm)	100	5000
70110319	MI650-1-5(8X21)-F700-AP	650	1	2	I - 1.5	<0.3mm@0.7m	5	20	isolated	100	fixed (700mm)	200	5000
70106695	DI650-1-5(8X21)-C180	650	1	2	I - 1.5	<3..4mm@5m	5	25	isolated	180	collimated	—	5000
70103250	MI650-1-5(8X21)	650	1	2	I - 1.5	<3..5mm@5m	5	20	isolated	100	collimated	100	5000
70104349	DI650-1-5(8X21)	650	1	2	I - 1.5	<3..5mm@5m	5	22	isolated	100	collimated	—	5000

Dot Laser, Ø12x34mm

Size	Ø12x34mm
Beam Shape	Dot
Material	Brass
Optics	glass lens AR coated
Output Aperture	5mm

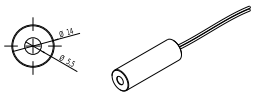


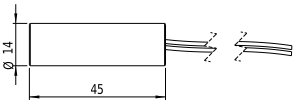


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70105582	DD635-1-5(12X34)	635	1	2	D - 0.5	adjustable	5	25	isolated	100	adjustable	—	5000
70100723	DC635-2.2-3(12X34)	635	2.2	3R	C - 0.4	adjustable	3	40	isolated	100	adjustable	—	5000
70109368	DDI635-3-5(12X34)	635	3	3R	D - 0.5	adjustable	5	45	isolated	100	adjustable	—	5000
70110142	DDI635-3-5(12X34)-C500	635	3	3R	D - 0.5	adjustable	5	45	isolated	500	adjustable	—	5000
70101201	DE635-3-3(12X34)	635	3	3R	E - 0.6	adjustable	3	40	isolated	100	adjustable	—	5000
70101560	DG635-3-3(12X34)	635	3	3R	G - 0.8	adjustable	3	35	isolated	100	adjustable	—	5000
70109597	DDI635-5-5(12X34)	635	5	3R	D - 0.5	adjustable	5	50	isolated	100	adjustable	—	5000
70101782	DE635-6-3(12X34)	635	6	3B	E - 0.6	adjustable	3	60	isolated	100	adjustable	—	5000
70101904	DH635-7-3(12X34)	635	7	3B	H - 1.0	adjustable	3	50	isolated	100	adjustable	—	5000
70118001	DD650-0.4-3(12X34)	650	0.4	1	D - 0.5	adjustable	3	18	VDD(+)	100	adjustable	—	5000
70109603	MD650-3-5(12X34)	650	3	3R	D - 0.5	adjustable	5	25	VDD(+)	100	adjustable	500	5000
70101546	DF670-3-3(12X34)	670	3	3R	F - 0.7	adjustable	3	45	isolated	100	adjustable	—	5000

Dot Laser, Ø14x45mm

Size	Ø14x45mm
Beam Shape	Dot
Beam Diameter	5mm
Material	aluminium
Optics	glass lens AR coated
Output Aperture	5mm





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70127010	DB520-1-3-FA(14X45)-AP-QCW	520	1	2	B - 0.3	<3..4mm@10m	3	100	isolated	200	fixed (10.0m)	—	6000
70114812	DB635-1-3-FA(14X45)-F20000	635	1	2	B - 0.3	<2..3mm@20m	3	32	isolated	100	fixed (20.0m)	—	5000
70106664	DB635-1-3-FA(14X45)-F7000	635	1	2	B - 0.3	<2..3mm@7m	3	31	isolated	120	fixed (7.0m)	—	5000
70100242	DB635-1-3-FA(14X45)	635	1	2	B - 0.3	<3..4mm@10m	3	32	isolated	100	fixed (10.0m)	—	5000
70107333	DB635-1-3-FA(14X45)-AP	635	1	2	B - 0.3	<3..4mm@10m	3	37	isolated	100	fixed (10.0m)	—	5000
70116328	DB635-1-3-FA(14X45)-F10000	635	1	2	B - 0.3	<3..4mm@10m	3	40	isolated	120	fixed (10.0m)	—	5000
70109856	DB635-1-FA(14X45)-AP-C300-NO-D	635	1	2	B - 0.3	<5..7mm@20m		25	isolated	300	fixed (20.0m)	—	5000
70108613	DB635-3-3-FA(14X45)-AP	635	3	3R	B - 0.3	<3..4mm@10m	3	60	isolated	100	fixed (10.0m)	—	5000
70109917	DB635-4-FA(14X45)-AP-C300-NO-D	635	4	3R	B - 0.3	<3..4mm@10m		45	isolated	300	fixed (10.0m)	—	5000
70114850	DB635-5-5-FA(14X45)	635	5	3R	B - 0.3	<3..4mm@10m	5	60	isolated	100	fixed (10.0m)	—	5000
70106220	DB650-1-3-FA(14X45)-AP	650	1	2	B - 0.3	3..4mm@10m	3	23	isolated	100	fixed (10.0m)	—	5000

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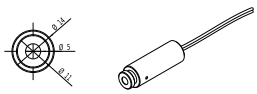
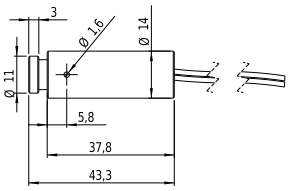
Dot Laser, Ø14x45mm

Size	Ø14x45mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Output Aperture	5mm



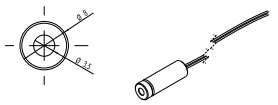


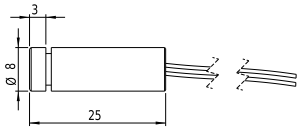
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Size of Laserdot	Operating Voltage V DC	Operating Current mA	Potential of Housing	Cable length mm	Focus	Max. Mod. Frequency kHz	Lifetime h
70115505	DD405-1-3(14X45)	405	1	2	D - 0.5	adjustable	3	60	isolated	100	adjustable	—	5000
70113174	DB635-1-3-FA(14X45)-ADJ	635	1	2	B - 0.3	adjustable	3	32	isolated	100	adjustable	—	5000
70101751	MH635-4-5(14X45)	635	4	3R	H - 1.0	adjustable	5	45	isolated	100	adjustable	200	5000
70101812	MH650-4-5(14X45)	650	4	3R	H - 1.0	adjustable	5	25	isolated	100	adjustable	500	5000
70112924	AMH650-5-5(14X45)	650	5	3R	H - 1.0	adjustable	5	30	isolated	100	adjustable	50	5000
70101959	DD650-9-3(14X45)	650	9	3B	D - 0.5	adjustable	3	55	isolated	100	adjustable	—	5000
70100082	DG650-13-3(14X45)	650	13	3B	G - 0.8	adjustable	3	80	isolated	100	adjustable	—	5000
70102055	DD650-16-3(14X45)	650	16	3B	D - 0.5	adjustable	3	60	isolated	100	adjustable	—	5000
70102178	DH650-16-3(14X45)	650	16	3B	H - 1.0	adjustable	3	55	isolated	100	adjustable	—	5000
70102192	DH650-24-3(14X45)	650	24	3B	H - 1.0	adjustable	3	80	isolated	100	adjustable	—	5000
70120059	DB670-2.5-3-FA(14X45)	670	2.5	3R	B - 0.3	adjustable	3	45	isolated	2000	adjustable	—	5000

Dot Laser, Ø8x25mm

- Operating Voltage 3V DC
- Compact size

Size	Ø8x25mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Output Aperture	3.5mm

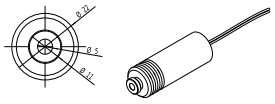


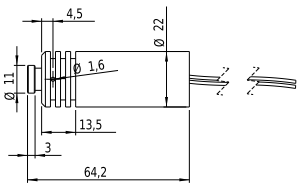


Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Size of Laserdot	Operating Voltage V DC	Operating Current mA	Potential of Housing	Cable length mm	Focus	Max. Mod. Frequency kHz	Lifetime h
70100112	DC635-2.2-3(8X25)	635	2.2	3R	C - 0.4	adjustable	3	45	isolated	100	adjustable	—	5000
70114843	DC650-0.4-3(8X25)	650	0.4	1	C - 0.4	adjustable	3	18	isolated	100	adjustable	—	5000
70122114	DC650-1-3(8X25)-HT	650	1	2	C - 0.4	<6mm@10m	3	20	isolated	400	collimated	—	2000
70100068	DC650-1-3(8X25)	650	1	2	C - 0.4	adjustable	3	19	isolated	100	adjustable	—	5000
70114331	DC650-1-3(8X25)-C500	650	1	2	C - 0.4	adjustable	3	20	isolated	500	adjustable	—	5000
70112726	DC650-1-3(8X25)-C500-70112726	650	1	2	C - 0.4	adjustable	3	22	isolated	500	adjustable	—	5000
70100792	DC650-2.2-3(8X25)	650	2.2	3R	C - 0.4	adjustable	3	25	isolated	100	adjustable	—	5000
70100815	DC670-2.2-3(8X25)	670	2.2	3R	C - 0.4	adjustable	3	45	isolated	100	adjustable	—	5000
70102673	DC850-2.5-3(8X25)	850	2.5	3R	C - 0.4	adjustable	3	15	VDD(+)	100	adjustable	—	5000

Dot Laser, Ø22x65mm

Size	Ø22x65mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Output Aperture	5mm

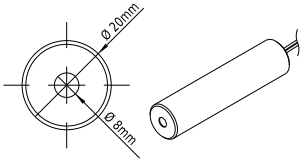


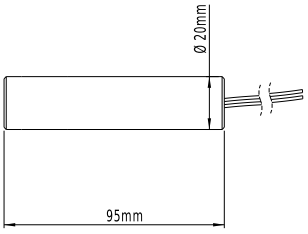


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70107852	DE405-12-6(22X65)	405	12	3B	E - 0.6	adjustable	6	50	isolated	100	adjustable	—	10000
70101980	MH650-24-5(22X65)	650	24	3B	H - 1.0	adjustable	5	100	isolated	100	adjustable	200	5000
70102277	DH650-40-3(22X65)	650	40	3B	H - 1.0	adjustable	3	120		100	adjustable	—	5000
70102062	MH650-40-5(22X65)	650	40	3B	H - 1.0	adjustable	5	90	isolated	100	adjustable	200	5000
70109320	DH658-60-3(22X65)	658	60	3B	H - 1.0	adjustable	3	100	isolated	100	adjustable	—	5000
70102147	DH808-350-3(22X65)	808	350	3B	H - 1.0	adjustable	3	600	isolated	100	adjustable	—	5000
70101386	DD980-20-3(22X65)	980	20	3B	D - 0.5	adjustable	3	70	isolated	100	adjustable	—	5000
70102130	DH980-200-3(22X65)	980	200	3B	H - 1.0	adjustable	3	400	isolated	100	adjustable	—	5000

Dot Laser, Ø20x95mm

Size	Ø20x95mm
Beam Shape	Dot
Beam Diameter	8mm
Material	aluminium
Optics	glass lens AR coated
Output Aperture	8mm





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70100280	DA532-5-3(20X95)	532	5	3R	0.2	<4mm@10m	3	250	isolated	100	collimated	—	5000
70100327	DA532-10-3(20X95)	532	10	3B	A - 0.1	<4mm@10m	3	300	isolated	100	collimated	—	5000
70100372	DA532-15-3(20X95)	532	15	3B	A - 0.1	<4mm@10m	3	350	isolated	100	collimated	—	5000
70116595	DA635-8-5(20X95)	635	8	3B	A - 0.1	<9.5mm@40m	5	120	isolated	100	collimated	—	5000
70116601	DA635-8-24(20X95)	635	8	3B	A - 0.1	<9.5mm@40m	24	40	isolated	100	collimated	—	5000
70116618	DA658-20-5(20X95)	658	20	3B	A - 0.1	<9.5mm@40m	5	120	isolated	100	collimated	—	5000
70116649	DA658-20-24(20X95)-C3000	658	20	3B	A - 0.1	<9.5mm@40m	24	20	isolated	3000	collimated	—	5000
70116625	DA658-20-24(20X95)	658	20	3B	A - 0.1	<9.5mm@40m	24	40	isolated	100	collimated	—	5000

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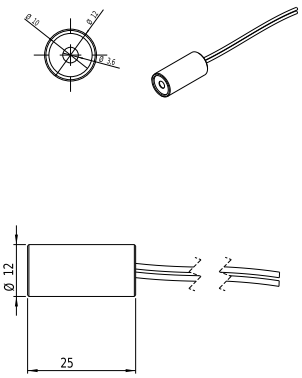
Dot Laser, Ø12x25mm

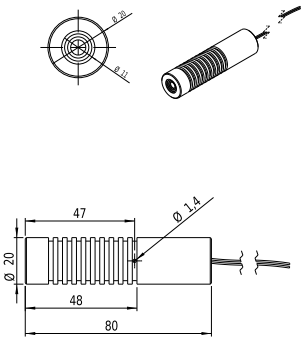
Size	Ø12x25mm
Beam Shape	Dot
Beam Diameter	5mm
Material	aluminium
Optics	glass lens AR coated
Output Aperture	5mm



Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70106596	DD635-1-5(12X25)15MMAT1000MM	635	1	2	D - 0.5	<15mm@1m	5	25	isolated	100	fixed (1000mm)	—	5000
70107586	DD635-1-5(12X25)	635	1	2	D - 0.5	<2..3mm@5m	5	31	isolated	100	collimated	—	5000
70100471	DD635-1-3(12X25)	635	1	2	D - 0.5	<3mm@5m	3	26	isolated	100	collimated	—	5000
70106770	DD635-5-5(12X25)-F2000	635	5	3R	D - 0.5	<1..2mm@2m	5	60	isolated	100	fixed (2000mm)	—	5000
70109221	DDI635-5-5(12X25)	635	5	3R	D - 0.5	<4mm@5m	5	60	isolated	100	collimated	—	5000
70102833	DDI650-2.5-5(12X25)	650	2.5	3R	D - 0.5	<2..3mm@5m	5	25	isolated	100	collimated	—	5000
70100891	DD650-2.5-3(12X25)	650	2.5	3R	D - 0.5	<3mm@5m	3	20	isolated	100	collimated	—	5000
70109214	DDI650-10-5(12X25)	650	10	3B	D - 0.5	<4mm@5m	5	55	isolated	100	collimated	—	5000

Dot Laser, Ø20x80mm

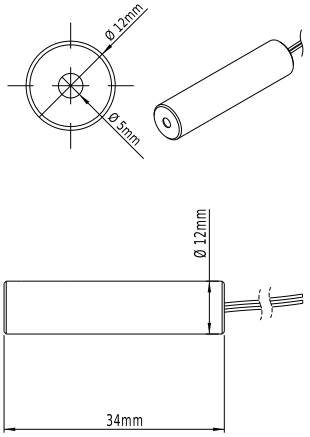
Size	Ø20x80mm
Beam Shape	Dot
Beam Diameter	0.15mm
Material	aluminium
Optics	none
Output Aperture	5mm



Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70102307	DJ532-1-3(20X80)	532	1	2	J - 2.0	0.15mm@10mm	3	250	isolated	100	fixed (10mm)	—	5000
70102314	DJ532-5-3(20X80)	532	5	3R	J - 2.0	0.15mm@10mm	3	250	isolated	100	fixed (10mm)	—	5000
70102321	DJ532-10-3(20X80)	532	10	3B	J - 2.0	0.15mm@10mm	3	300	isolated	100	fixed (10mm)	—	5000
70102338	DJ532-15-3(20X80)	532	15	3B	J - 2.0	0.15mm@10mm	3	350	isolated	100	collimated	—	5000
70102345	DJ532-20-3(20X80)	532	20	3B	J - 2.0	0.15mm@10mm	3	400	isolated	100	collimated	—	5000
70102352	DJ532-25-3(20X80)	532	25	3B	J - 2.0	0.15mm@10mm	3	370	isolated	100	collimated	—	5000
70102369	DJ532-30-3(20X80)	532	30	3B	J - 2.0	0.15mm@10mm	3	450	isolated	100	collimated	—	5000

Dot Laser, Ø12x34mm

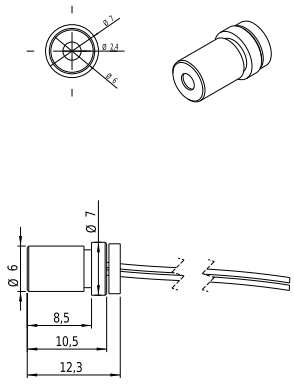
Size	Ø12x34mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Output Aperture	5mm



Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70122350	MD650-1-5(12X34)-F10000	650	1	2	D - 0.5	5mm@10m	5	20	isolated	100	collimated	100	10000
70101881	DG650-7-3(12X34)	650	7	3B	G - 0.8	adjustable	3	80	isolated	100	adjustable	—	5000
70102031	DH650-7-3(12X34)	650	7	3B	H - 1.0	adjustable	3	32	isolated	100	adjustable	—	5000
70101911	DD650-9-3(12X34)	650	9	3B	D - 0.5	adjustable	3	120	isolated	100	adjustable	—	5000
70108668	DH670-1-6(12X34)	670	1	2	H - 1.0	adjustable	5	40	isolated	100	adjustable	—	5000
70100952	MD670-2-5(12X34)	670	2	3R	D - 0.5	adjustable	5	50	isolated	100	adjustable	200	5000
70108651	DH670-4-6(12X34)	670	4	3R	H - 1.0	adjustable	6	35	isolated	100	adjustable	—	5000

Dot Laser, Ø7x14mm

Size	Ø7x14mm
Beam Shape	Dot
Beam Diameter	2.5mm
Material	Brass
Optics	acryl lense
Output Aperture	2.5mm



Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70107647	DG650-1-5(7X14)-F35	650	1	2	G - 0.8	<0.3mm@0.035m	5	20	VDD(+)	100	fixed (35mm)	—	5000
70108637	DG650-1-5(7X14)-F35-C125	650	1	2	G - 0.8	<0.3mm@0.035m	5	25	VDD(+)	125	fixed (35mm)	—	5000
70123333	DG650-1-3(7X14)-F500-10KH	650	1	2	G - 0.8	<1mm@0.5m	3	28	VDD(+)	1000	fixed (500mm)	—	10000
70107388	DG650-1-5(7X14)	650	1	2	G - 0.8	<3..5mm@5m	5	20	VDD(+)	100	collimated	—	5000
70103069	DG650-1-3(7X14)	650	1	2	G - 0.8	<4..6mm@5m	3	20	VDD(+)	100	collimated	—	5000
70129373	DG650-1-3(7X14)-C400	650	1	2	G - 0.8	<4..6mm@5m	3	20	VDD(+)	400	collimated	—	5000
70117646	DG650-1-3(7X14)-70117646	650	1	2	G - 0.8	<4..6mm@5m	3	25	VDD(+)	250	collimated	—	10000

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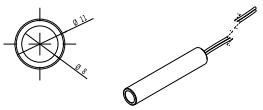
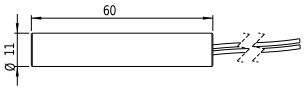
Dot Laser, Ø11x60mm

Size	Ø11x60mm
Beam Shape	Dot
Beam Diameter	8mm
Material	Brass
Optics	glass lens AR coated
Output Aperture	8mm

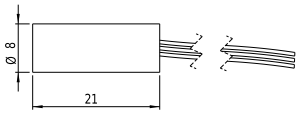




Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70100211	DA635-1-3(11X60)	635	1	2	0.2	<9.5mm@40m	3	30	isolated	100	collimated	—	5000
70100648	DA635-2-3(11X60)	635	2	3R	0.2	<7mm@20m	3	50	isolated	100	collimated	—	5000
70100051	DA650-1-3(11X60)	650	1	2	0.2	<9.5mm@40m	3	25	VDD(+)	100	collimated	—	5000
70110517	DA650-1-5(11X60)	650	1	2	A - 0.1	<9.5mm@40m	5	40	isolated	100	collimated	—	5000
70100228	DA670-1-3(11X60)	670	1	2	0.2	<4mm@10m	3	30	isolated	100	collimated	—	5000
70114829	DA850-8-3(11X60)	850	8	3B	A - 0.1	<9.5mm@40m	3	50	isolated	100	collimated	—	5000

Dot Laser, Ø8x21mm

Size	Ø8x21mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Output Aperture	2.5mm

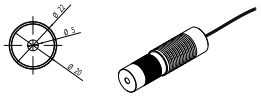


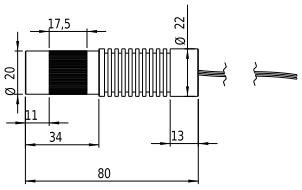
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70105407	DI635-2.5-5(8X21)	635	2.5	3R	I - 1.5	<2-3mm@1m	5	45	isolated	100	collimated	—	5000
70106831	DI635-2.5-5(8X21)-NO-MONITOR	635	2.5	3R	I - 1.5	<3..4mm@5m	5	40	isolated	100	collimated	—	5000
70103946	CSDI650-0.1-5-F100	650	0.1	1	I - 1.5	<0.3mm@0.1m	5	40	isolated	100	fixed (100mm)	—	5000
70103953	DI650-0.3-5(8X21)-F100	650	0.3	1	I - 1.5	<0.3mm@0.1m	5	19	isolated	100	fixed (100mm)	—	5000
70120714	DI650-50(8X21)-NO-DRIVER	650	50	3B	I - 1.5	<3..4mm@5m		70			collimated	—	10000
70122756	MDI850-3-5(8X21)	850	3	3R	I - 1.5	3mm@5m	5	15	VDD(+)	100	collimated	10	5000

Dot Laser, Ø22x80mm

- Operating Voltage 5V DC
- Adjustable focus

Size	Ø22x80mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Output Aperture	5mm



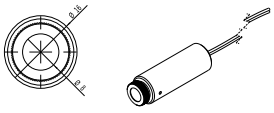


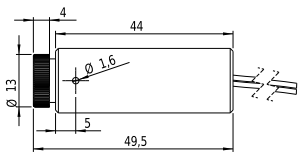
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70105810	DD532-5-5-F(22X80)	532	5	3R	D - 0.5	adjustable	5	160	isolated	100	adjustable	—	5000
70114904	MD532-5-5-F(22X80)	532	5	3R	D - 0.5	adjustable	5	250	isolated	100	adjustable	1	5000
70105834	DD532-10-5-F(22X80)	532	10	3B	D - 0.5	adjustable	5	300	VDD(+)	100	adjustable	—	5000
70109122	DA532-15-5-F(22X80)	532	15	3B	A - 0.1	adjustable	5	250	isolated	100	adjustable	—	5000
70105827	DD532-15-5-F(22X80)	532	15	3B	D - 0.5	adjustable	5	300	isolated	100	adjustable	—	5000

Dot Laser, Ø16x45mm

- Adjustable focus

Size	Ø16x45mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Output Aperture	8mm





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70101171	DB635-3-3(16X45)	635	3	3R	B - 0.3	adjustable	3	40	isolated	100	adjustable	—	5000
70100631	MB635-3-5(16X45)	635	3	3R	B - 0.3	adjustable	5	25	isolated	100	adjustable	200	5000
70102048	DB650-12-3(16X45)	650	12	3B	B - 0.3	adjustable	3	50	isolated	100	adjustable	—	5000
70102208	DB650-25-3(16X45)	650	25	3B	B - 0.3	adjustable	3	75	isolated	100	adjustable	—	5000
70101195	DB670-3-3(16X45)	670	3	3R	B - 0.3	adjustable	3	45	isolated	100	adjustable	—	5000

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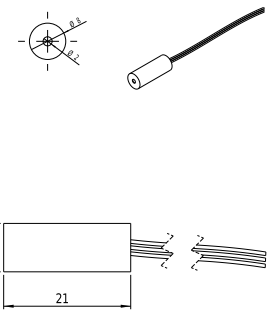
Dot Laser, Ø8x21mm

- Compact size

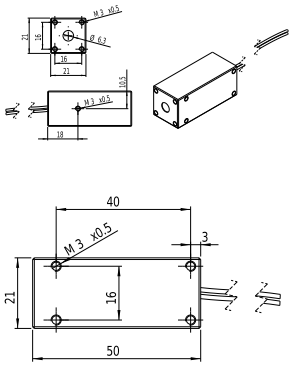
Size	Ø8x21mm
Beam Shape	Dot
Beam Diameter	2.5mm
Material	aluminium
Optics	glass lens AR coated
Output Aperture	2.5mm



Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70103779	DI650-1-5(8X21)-F100	650	1	2	I - 1.5	<0.3mm@0.1m	5	22	isolated	100	fixed (100mm)	—	5000
70125719	DI650-1-3(8X21)-F500-C350-AP	650	1	2	I - 1.5	<1mm@0.5m	3	28	VDD(+)	350	fixed (500mm)	—	20000
70101058	DI650-2.5-3(8X21)	650	2.5	3R	I - 1.5	<3..5mm@5m	3	25	isolated	100	collimated	—	5000
70112566	DI650-5-3(8X21)-AP	650	5	3R	I - 1.5	<2.5mm@1m	3	30		100	fixed (1000mm)	—	5000
70103168	DI650-5-3(8X21)	650	5	3R	I - 1.5	<2mm@1.5m	3	35	isolated	100	collimated	—	5000

Dot Laser, 21x21x50mm

Size	21x21x50mm
Beam Shape	Dot
Beam Diameter	3.5mm
Material	aluminium
Optics	glass lens AR coated
Output Aperture	5mm

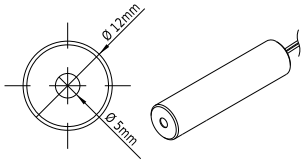


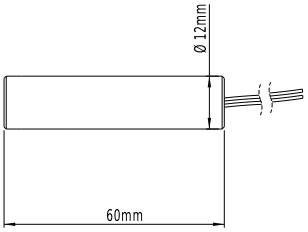
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70100860	DD532-1-5(21X21X50)	532	1	2	D - 0.5	<5mm@5m	5	250	isolated	280	collimated	—	5000
70101089	DD532-3-5(21X21X50)	532	3	3R	D - 0.5	<5mm@5m	5	250	isolated	280	collimated	—	5000
70101126	DD532-5-5(21X21X50)	532	5	3R	D - 0.5	<5mm@5m	5	250	isolated	280	collimated	—	5000
70101225	DD532-10-5(21X21X50)	532	10	3B	D - 0.5	<5mm@5m	5	350	isolated	280	collimated	—	5000

Dot Laser, Ø12x60mm

- Laser Class 2

Size	Ø12x60mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Output Aperture	5mm



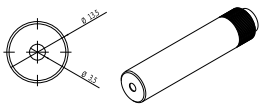


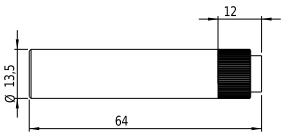
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Size of Laserdot	Operating Voltage V DC	Operating Current mA	Potential of Housing	Cable length mm	Focus	Max. Mod. Frequency kHz	Lifetime h
70115109	DDI405-1-24-F(12X60)-C500	405	1	2	D - 0.5	adjustable	24	15	isolated	500	adjustable	—	5000
70112443	DA635-1-5-F(12X60)	635	1	2	0.2	adjustable	5	31	isolated	100	adjustable	—	5000
70113839	MDA635-1-5-F(12X60)	635	1	2	A - 0.1	adjustable	5	40	isolated	100	adjustable	200	5000
70118575	DA670-1-5-F(12X60)-POTI	670	1	2	A - 0.1	adjustable	5	40	isolated	100	adjustable	—	5000

Dot Laser, Ø14x64mm

- Axial parallel
- With battery
- Glas lenses anti reflex coated
- Compact size

Size	Ø14x64mm
Beam Shape	Dot
Beam Diameter	3mm
Material	aluminium
Optics	glass lens AR coated
Output Aperture	3.5mm
Battery	3 x LR44





Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Size of Laserdot	Operating Voltage V DC	Operating Current mA	Potential of Housing	Cable length mm	Focus	Max. Mod. Frequency kHz	Lifetime h
70123760	DC635-1-4.5(14X64)-RS-AP	635	1	2	C - 0.4	<3mm@5m	4.5	30	VDD(+)		fixed (5.0m)	—	5000
70125795	DC650-0.4-4.5(14X64)-S-AP-F150	650	0.4	1	C - 0.4	<1mm@0.15m	4.5	20	VDD(+)		fixed (150mm)	—	5000
70121889	DC650-0.4-4.5(14X64)-S-AP	650	0.4	1	C - 0.4	<3mm@5m	4.5	20	VDD(+)		fixed (5.0m)	—	5000
70116076	DC650-1-4.5(14X64)-S-AP	650	1	2	C - 0.4	<3mm@5m	4.5	20	VDD(+)		fixed (5.0m)	—	5000

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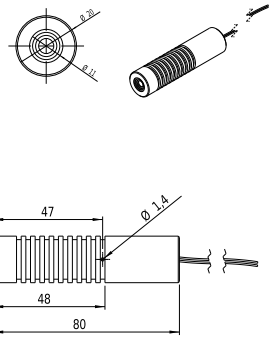
Dot Laser, Ø20x80mm

Size	Ø20x80mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Output Aperture	5mm

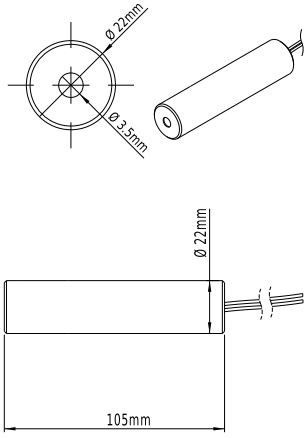


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70126990	DD532-0.4-24(20X80)-F500	532	0.4	1	D - 0.5	<1.5mm@0.5m	24	11	isolated	300	fixed (500mm)	—	5000
70107272	DD532-1-3(20X80)-AP	532	1	2	D - 0.5	<3.5..5mm@10m	3	160	isolated	100	collimated	—	5000
70124286	DD532-1-24(20X80)	532	1	2	D - 0.5	<3.5..5mm@10m	24	11	isolated	100	collimated	—	5000
70101423	DD532-30-3(20X80)	532	30	3B	D - 0.5	<3..5mm@10m	3	400	isolated	100	collimated	—	5000

Dot Laser, Ø22x105mm

- Axial parallel
- With battery
- Glas lenses anti reflex coated
- Compact size

Size	Ø22x105mm
Beam Shape	Dot
Beam Diameter	3mm
Material	aluminium
Optics	glass lens AR coated
Output Aperture	3.5mm
Battery	CR123A

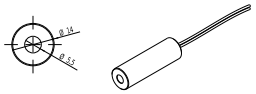


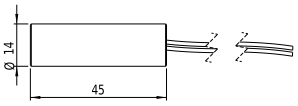
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70122343	MDD520-1-3(22X105)-S-AP-QCW	520	1	2	D - 0.5	<4mm@5m	3	80	VDD(+)		collimated	—	6000
70116878	DB635-1-3-FA(22X105)-S-AP	635	1	2	B - 0.3	<3.5mm@5m	3	30			fixed (5.0m)	—	5000
70117004	DB650-0.4-3-FA(22X105)-S-AP	650	0.4	1	B - 0.3	<3.5mm@5m	3	20	VDD(+)		fixed (5.0m)	—	5000
70116861	DB650-1-3-FA(22X105)-S-AP	650	1	2	B - 0.3	<3.5mm@5m	3	19	VDD(+)		fixed (5.0m)	—	5000

Dot Laser, Ø14x45mm

- Operating Voltage 3V DC
- Glas lenses anti reflex coated

Size	Ø14x45mm
Beam Shape	Dot
Beam Diameter	5mm
Material	Brass
Optics	glass lens AR coated
Output Aperture	5mm



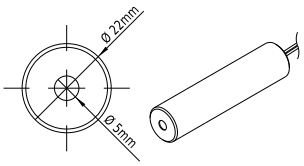


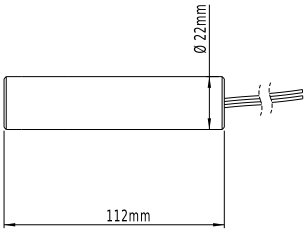
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70100259	DB650-1-3-FA(14X45)	650	1	2	B - 0.3	<4mm@10m	3	21	isolated	100	fixed (10.0m)	—	5000
70100839	DB650-2.5-3-FA(14X45)	650	2.5	3R	B - 0.3	<4mm@5m	3	30	isolated	100	fixed (5.0m)	—	5000
70100457	DB670-1-3-FA(14X45)	670	1	2	B - 0.3	<4mm@5m	3	45	isolated	100	fixed (5.0m)	—	5000

Dot Laser, Ø22x112mm

- Operating Voltage 3V DC
- Compact size
- With battery

Size	Ø22x112mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Output Aperture	5mm
Battery	CR123A





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70120073	DOE260-532-5-3-S(22X112)-AP	532	5	2	E - 0.6	<0,5mm@0,4m	3	150	VDD(+)		fixed (4.0m)	—	10000
70120066	DOE532-5-3-S(22X112)-F400	532	5	3R	E - 0.6	<0,5mm@0,4m	3	150	VDD(+)		fixed (4.0m)	—	10000
70121568	DOE635-5-3-S(22X112)	635	5	3R	E - 0.6	<0,5mm@0,4m	3	60	VDD(+)		fixed (4.0m)	—	10000

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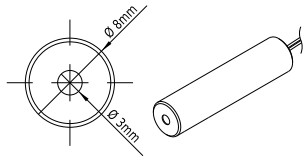
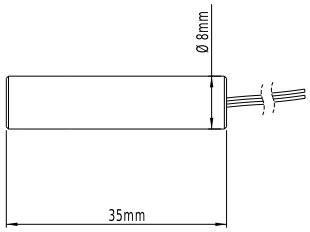
Dot Laser, Ø8x35mm

- Operating Voltage 5V DC
- Compact size
- High Power
- Fixed focus

Size	Ø8x35mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Output Aperture	3mm



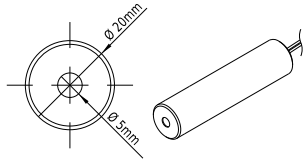


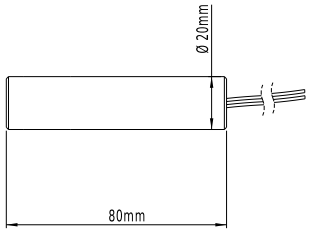
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Size of Laserdot	Operating Voltage V DC	Operating Current mA	Potential of Housing	Cable length mm	Focus	Max. Mod. Frequency kHz	Lifetime h
70118445	DG520-5-5(8X35)-QCW	520	5	3R	G - 0.8	<8mm@10m	5	150	isolated	100	collimated	—	6000
70118308	DF520-10-5(8X35)	520	10	3B	F - 0.7	<8mm@10m	5	100	VDD(+)	100	collimated	—	6000
70118469	DG520-12-5(8X35)-QCW	520	12	3B	G - 0.8	<8mm@10m	5	180	isolated	100	collimated	—	6000

Dot Laser, Ø20x80mm

- Operating Voltage 3V DC

Size	Ø20x80mm
Beam Shape	Dot
Beam Diameter	5mm
Material	aluminium
Optics	glass lens AR coated
Output Aperture	5mm



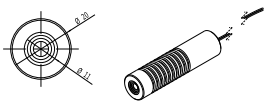


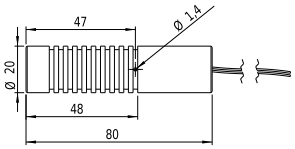
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Size of Laserdot	Operating Voltage V DC	Operating Current mA	Potential of Housing	Cable length mm	Focus	Max. Mod. Frequency kHz	Lifetime h
70108835	DD532-1-3(20X80)-AP-C280	532	1	2	D - 0.5	<5mm@10m	3	180	isolated	280	collimated	—	5000
70108859	DD532-1-3(20X80)-AP-C300	532	1	2	D - 0.5	<5mm@10m	3	250	isolated	300	collimated	—	5000
70101324	DD532-20-3(20X80)	532	20	3B	D - 0.5	<5mm@10m	3	300	isolated	100	collimated	—	5000

Dot Laser, Ø20x80mm

- Compact size
- Glas lenses anti reflex coated

Size	Ø20x80mm
Beam Shape	Dot
Beam Diameter	3mm
Material	aluminium
Optics	glass lens AR coated
Output Aperture	5mm



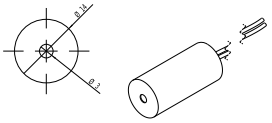


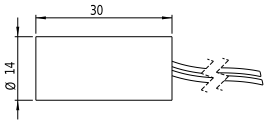
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70116731	MD532-1-5(20X80)	532	1	2	D - 0.5	<3..5mm@10m	5	150	isolated	100	collimated	10	5000
70101287	DD532-15-3(20X80)	532	15	3B	D - 0.5	<3..5mm@10m	3	250	VDD(+)	100	collimated	—	5000
70114980	MD532-15-5(20X80)	532	15	3B	D - 0.5	<3..5mm@10m	5	250	isolated	100	collimated	10	5000

Dot Laser, Ø14x30mm

- Glas lenses anti reflex coated

Size	Ø14x30mm
Beam Shape	Dot
Beam Diameter	3mm
Material	aluminium
Optics	glass lens AR coated
Output Aperture	3mm





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70115376	DDI650-3-5(14X30)	650	3	3R	D - 0.5		5	40	isolated	100	fixed	—	5000
70116663	DDI650-3-5(14X30)-C170	650	3	3R	D - 0.5		5	40	isolated	170	fixed	—	5000
70120202	IMD830-0.4-5(14X30)-10KHZ	830	0.4	1	D - 0.5		5	15	isolated	100	collimated	—	5000

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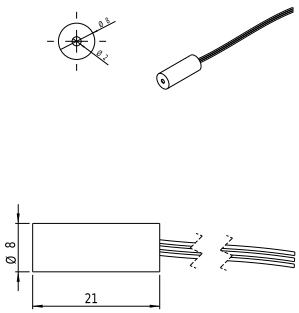
Dot Laser, Ø8x21mm

- Operating Voltage 3V DC
- Fixed focus
- Compact size

Size	Ø8x21mm
Beam Shape	Dot
Beam Diameter	2mm
Material	aluminium
Optics	glass lens AR coated
Output Aperture	2mm

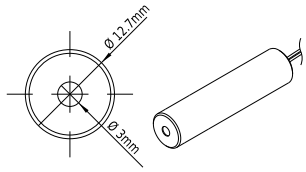


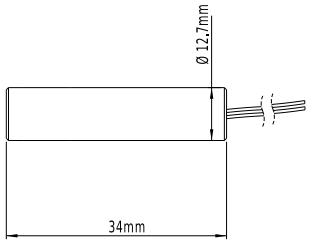
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Size of Laserdot	Operating Voltage V DC	Operating Current mA	Potential of Housing	Cable length mm	Focus	Max. Mod. Frequency kHz	Lifetime h
70125061	DI650-0.4-3(8X21)-F61	650	0.4	1	I - 1.5	<0.5mm@0.061m	3	20	isolated	100	fixed (61mm)	—	10000
70100594	DI650-1-3(8X21)	650	1	2	I - 1.5	<3..5mm@5m	3	30	isolated	100	collimated	—	10000
70100624	DI670-1-3(8X21)	670	1	2	I - 1.5	<3..5mm@5m	3	26	isolated	100	collimated	—	5000

Modulated Dot Laser, Ø12.7x34mm

- Operating Voltage 5V DC
- Modulated
- Laser Class 2
- Compact size
- Glas lenses anti reflex coated

Size	Ø12.7x34mm
Beam Shape	Dot
Beam Diameter	1.8mm
Material	Brass
Optics	glass lens AR coated
Output Aperture	3mm



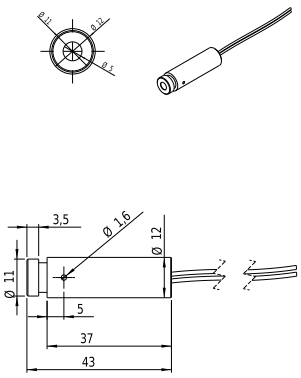


Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Size of Laserdot	Operating Voltage V DC	Operating Current mA	Potential of Housing	Cable length mm	Focus	Max. Mod. Frequency kHz	Lifetime h
70116359	MDD635-1-5(12.7X34)	635	1	2	D - 0.5		5	30	isolated	150	collimated	100	10000
70116342	MDD658-1-5(12.7X34)	658	1	2	D - 0.5		5	20	isolated	150	collimated	100	10000
70116335	MDD670-1-5(12.7X34)	670	1	2	D - 0.5		5	30	isolated	150	collimated	100	10000

Dot Laser, Ø12x45mm

- Glas lenses anti reflex coated
- Isolated housing
- Laser Class 2
- Operating Voltage 24V DC
- Small package

Size	Ø12x45mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Output Aperture	5mm

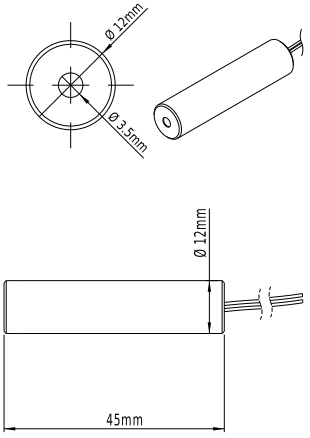


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70115956	DDI635-1-24(12X45)-C3000	635	1	2	D - 0.5	adjustable	24	5	isolated	3000	adjustable	—	5000
70118254	DDI635-1-24(12X45)-C5000	635	1	2	D - 0.5	adjustable	24	5	isolated	5000	adjustable	—	5000
70113204	DDI635-1-24(12X45)-C500	635	1	2	D - 0.5	adjustable	24	7	isolated	500	adjustable	—	5000

Dot Laser, Ø12x45mm

- Operating Voltage 24V DC
- Laser Class 1
- Low power consumption
- Compact size

Size	Ø12x45mm
Beam Shape	Dot
Beam Diameter	3mm
Material	aluminium
Optics	glass lens AR coated
Output Aperture	3.5mm



Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70132212	DC520-0.4-24(12X45)QCW-C10000	520	0.4	1	C - 0.4	<4mm@5m	24	5	isolated	10000	collimated	—	6000
70120462	DC650-0.4-24(12X45)-C5000	650	0.4	1	C - 0.4	<4mm@5m	24	5	isolated	5000	collimated	—	5000
70132205	DC650-0.4-24(12X45)-C10000	650	0.4	1	C - 0.4	<4mm@5m	24	5	isolated	10000	collimated	—	5000

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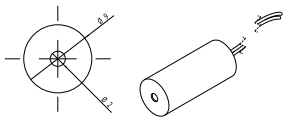
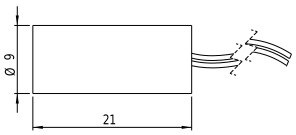
Dot Laser, Ø9x21mm

- Axial parallel
- Glas lenses anti reflex coated
- Small package

Size	Ø9x21mm
Beam Shape	Dot
Beam Diameter	2mm
Material	aluminium
Optics	glass lens AR coated
Output Aperture	2mm

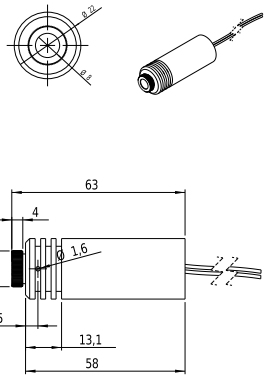




Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Size of Laserdot	Operating Voltage V DC	Operating Current mA	Potential of Housing	Cable length mm	Focus	Max. Mod. Frequency kHz	Lifetime h
70117684	DI635-1-5(9X21)-F100-AP	635	1	2	I - 1.5	<0.3mm@0.1m	5	27	isolated	100	fixed (100mm)	—	5000
70116632	DI635-5-5(9X21)-F100-AP	635	5	3R	I - 1.5	<0.3mm@0.1m	5	60	isolated	100	fixed (100mm)	—	5000
70106206	DI650-1-3(9X21)-F1000-AP	650	1	2	I - 1.5	<1.5mm@1m	3	20		100	fixed (1000mm)	—	5000

Dot Laser, Ø22x65mm

Size	Ø22x65mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Output Aperture	8mm

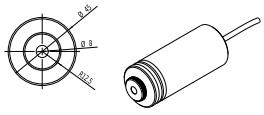


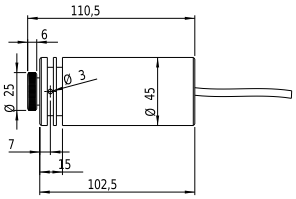
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Size of Laserdot	Operating Voltage V DC	Operating Current mA	Potential of Housing	Cable length mm	Focus	Max. Mod. Frequency kHz	Lifetime h
70100754	DB808-120-3(22X65)	808	120	3B	B - 0.3	adjustable	3	250	isolated	100	adjustable	—	5000
70100761	DB808-300-3(22X65)	808	300	3B	B - 0.3	adjustable	3	550	isolated	100	adjustable	—	5000
70100778	DB808-350-3(22X65)	808	350	3B	B - 0.3	adjustable	3	750	isolated	100	adjustable	—	5000

Dot Laser, Ø45x100mm

- Laser Class 4
- Adjustable focus
- High Power
- Operating Voltage 5V DC

Size	Ø45x100mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Output Aperture	6mm



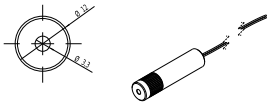


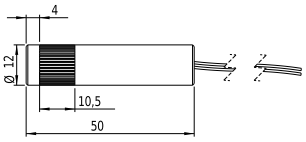
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70102581	DH808-600-5(45X100)	808	600	4	H - 1.0	adjustable	5	900	VDD(+)	500	adjustable	—	5000
70119695	MDH808-600-5(45X100)	808	600	4	H - 1.0	adjustable	5	900	VDD(+)	500	adjustable	1	5000
70103472	DH808-1200-5(45X100)	808	1200	4	H - 1.0	adjustable	5	2000	VDD(+)	500	adjustable	—	5000

Dot Laser, Ø12x50mm

- Operating Voltage 3V DC
- Compact size
- Glas lenses anti reflex coated
- Adjustable focus

Size	Ø12x50mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Output Aperture	3.5mm





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70125764	DD532-1-3-F(12X50)	532	1	2M	D - 0.5	adjustable	3	150	isolated	100	adjustable	—	5000
70112795	DD532-5-3-F(12X50)	532	5	3R	D - 0.5	adjustable	3	200	isolated	100	adjustable	—	5000

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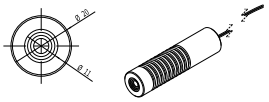
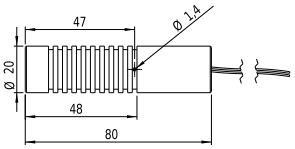
Dot Laser, Ø20x80mm

- Compact size

Size	Ø20x80mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Output Aperture	8mm



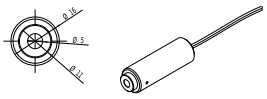


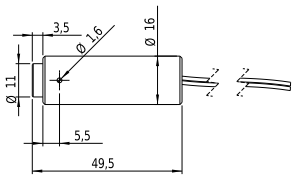
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Size of Laserdot	Operating Voltage V DC	Operating Current mA	Potential of Housing	Cable length mm	Focus	Max. Mod. Frequency kHz	Lifetime h
70124507	DA520-1-24(20X80)-QCW	520	1	2	A - 0.1	<10mm@40m	24	50	isolated	200	collimated	—	6000
70122107	DA520-10-5(20X80)-POTI	520	10	3B	A - 0.1	<10mm@100m	5	375	isolated	100	collimated	—	6000

Dot Laser, Ø16x50mm

- Operating Voltage 3V DC
- Compact size
- High Power
- Adjustable focus
- Laser Class 3B

Size	Ø16x50mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Output Aperture	5mm

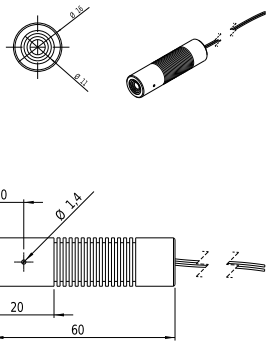


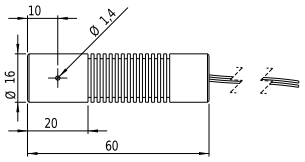


Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Size of Laserdot	Operating Voltage V DC	Operating Current mA	Potential of Housing	Cable length mm	Focus	Max. Mod. Frequency kHz	Lifetime h
70115680	DE650-40-3(16X50)	650	40	3B	E - 0.6	<4.5x15mm@20m	3	80	isolated	100	collimated	—	5000
70102260	DH650-40-3(16X50)	650	40	3B	H - 1.0	adjustable	3	80	isolated	100	adjustable	—	5000

Dot Laser, Ø16x60mm

Size	Ø16x60mm
Beam Shape	Dot
Beam Diameter	5mm
Material	aluminium
Optics	glass lens AR coated
Output Aperture	5mm

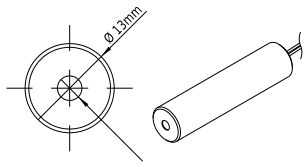


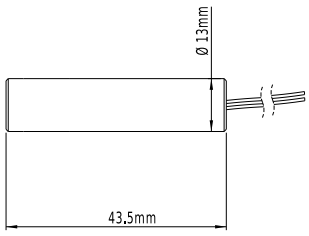


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70108460	DD532-2-3(16X60)-AP	532	2	3R	D - 0.5		3	250	isolated	100	collimated	—	5000
70100044	DD532-5-3(16X60)	532	5	3R	D - 0.5	<4..5mm@10m	3	250	isolated	100	collimated	—	5000

Dot Laser, Ø13x43.5mm

Size	Ø13x43.5mm
Beam Shape	Dot
Material	Brass
Optics	glass lens AR coated





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70129618	DA635-2-3(13X43.5)-F40000-C127	635	2	3R	0.2	<16mm@40m	3	25	VDD(+)	127	fixed (40.0m)	—	5000
70129625	DA650-2.5-3(13X43.5)-F40000-C127	650	2.5	3R	0.2	<16mm@40m	3	35	VDD(+)	127	fixed (40.0m)	—	10000

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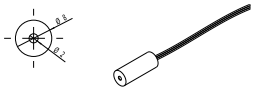
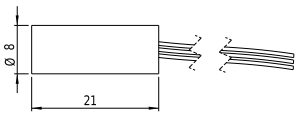
Dot Laser, Ø8x21mm

- Axial parallel
- Low power consumption
- Compact size

Size	Ø8x21mm
Beam Shape	Dot
Beam Diameter	2mm
Material	aluminium
Optics	glass lens AR coated
Output Aperture	2.5mm



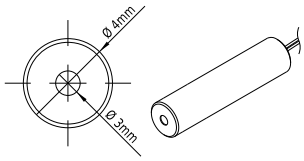


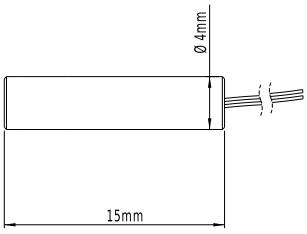
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70121582	DI650-0.4-3(8X21)-AP	650	0.4	1	I - 1.5	<3..5mm@5m	3	18	isolated	100	collimated	—	5000
70109979	DI650-1-5(8X21)-AP	650	1	2	I - 1.5	<3..5mm@5m	5	23	isolated	100	collimated	—	5000

Dot Laser, Ø4x15mm

- Micro Lasermodule
- Compact size
- Low current

Size	Ø4x15mm
Beam Shape	Dot
Material	Brass
Optics	glass lens AR coated
Output Aperture	3mm



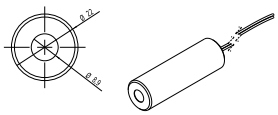


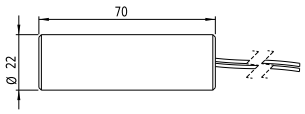
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70129472	DJ650-0.7-3(4X15)-F5000-C127	650	0.7	2	2.5	7mm@5m	3	25	VDD(+)	127	fixed (5.0m)	—	5000
70129489	DJ650-2-3(4X15)-F5000-C127	650	2	3R	2.5	7mm@5m	3	30	VDD(+)	127	fixed (5.0m)	—	5000

Dot Laser, Ø22x70mm

- Glas lenses anti reflex coated
- Compact size
- Fixed focus
- Operating Voltage 3V DC

Size	Ø22x70mm
Beam Shape	Dot
Beam Diameter	9mm
Material	aluminium
Optics	glass lens AR coated
Output Aperture	9mm



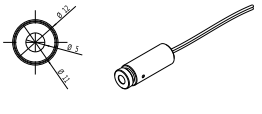


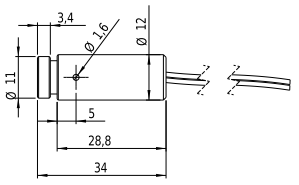
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70100297	DA980-5-3(22X70)	980	5	3R	0.2	<5mm@10m	3	50	isolated	100	collimated	—	5000
70100341	DA980-10-3(22X70)	980	10	3B	0.2		3	70	isolated	100	collimated	—	5000

Dot Laser, Ø12x34mm

- Adjustable focus
- Compact size

Size	Ø12x34mm
Beam Shape	Dot
Material	Brass
Optics	glass lens AR coated
Output Aperture	5mm





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70101317	DF635-3-3(12X34)	635	3	3R	F - 0.7	adjustable	3	40	isolated	100	adjustable	—	5000
70105506	DG650-1-5(12X34)	650	1	2	G - 0.8	adjustable	5	20	isolated	100	adjustable	—	5000

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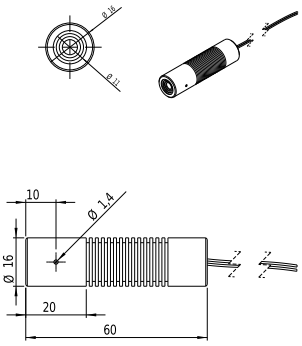
Dot Laser, Ø16x60mm

- Operating Voltage 3V DC
- Fixed focus
- Image processing
- Compact size

Size	Ø16x60mm
Beam Shape	Dot
Beam Diameter	2.5mm
Material	aluminium
Optics	glass lens AR coated
Output Aperture	5mm

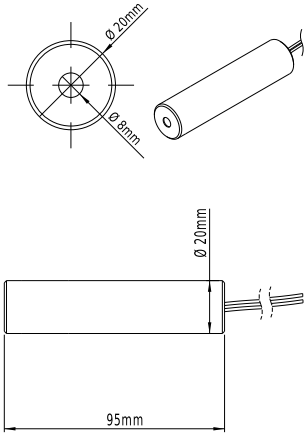


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70117769	DD532-0.4-3(16X60)	532	0.4	1	D - 0.5	<3..5mm@10m	3	160	isolated	100	collimated	—	5000
70107715	DD532-1-3(16X60)	532	1	2	D - 0.5	<3..5mm@10m	3	160	isolated	100	collimated	—	5000

Dot Laser, Ø20x95mm

- Operating Voltage 3V DC
- Laser Class 2
- Fixed focus
- Large operating range
- Isolated housing

Size	Ø20x95mm
Beam Shape	Dot
Beam Diameter	9mm
Material	aluminium
Optics	glass lens AR coated
Output Aperture	8mm

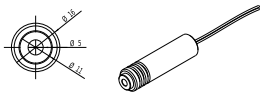


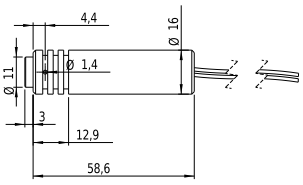
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70104868	DA532-1-3(20X95)-01607	532	1	2	0.2	9.5@40m	3	180	isolated	100	collimated	—	5000
70100037	DA532-1-3(20X95)	532	1	2	A - 0.1	<9.5mm@40m	3	200	isolated	100	collimated	—	5000

Dot Laser, Ø16x50mm

- Compact size
- Adjustable focus
- Glas lenses anti reflex coated

Size	Ø16x50mm
Beam Shape	Dot
Material	Brass
Optics	glass lens AR coated
Output Aperture	5mm

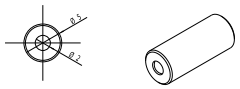


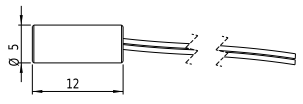


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70101539	ME650-3-5(16X50)	650	3	3R	E - 0.6	adjustable	5	25		100	adjustable	500	5000
70103137	DI980-25-3(16X50)	980	25	3B	I - 1.5	adjustable	3	40	VDD(+)	100	adjustable	—	5000

Dot Laser, Ø5x12mm

Size	Ø5x12mm
Beam Shape	Dot
Beam Diameter	3mm
Material	Brass
Optics	glass lens AR coated





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70120240	DI650-0.4-3(5X12)-F100	650	0.4	1	I - 1.5	0.3mm@100mm	3	15	GND(-)	100	fixed (100mm)	—	5000
70121315	DI650-0.4-3(5X12)	650	0.4	1	I - 1.5	3..4mm@5m	3	22	GND(-)	100	collimated	—	5000

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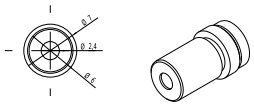
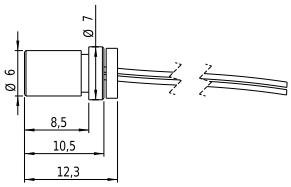
Dot Laser, Ø7x14mm

- Operating Voltage 3V DC
- Laser Class 2
- Compact size
- Adjustable focus
- Low cost

Size	Ø7x14mm
Beam Shape	Dot
Material	Brass
Optics	acryl lense
Output Aperture	2.5mm



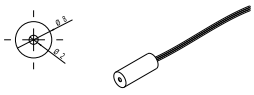


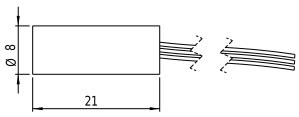
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Size of Laserdot	Operating Voltage V DC	Operating Current mA	Potential of Housing	Cable length mm	Focus	Max. Mod. Frequency kHz	Lifetime h
70116007	DG650-1-3(7X14)-ADJ	650	1	2	G - 0.8	adjustable	3	20	VDD(+)	100	adjustable	—	5000
70107111	DG650-1-3(7X14)-ADJ-C50	650	1	2	G - 0.8	adjustable	3	25	VDD(+)	50	adjustable	—	5000

Dot Laser, Ø8x21mm

- Laser Class 2
- Compact size

Size	Ø8x21mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Output Aperture	2mm



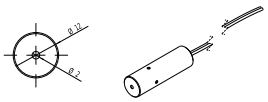


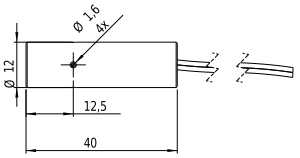
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Size of Laserdot	Operating Voltage V DC	Operating Current mA	Potential of Housing	Cable length mm	Focus	Max. Mod. Frequency kHz	Lifetime h
70108583	MI650-1-5(8X21)-AP	650	1	2	I - 1.5	<2..3mm@5m	5	25		100	collimated	200	5000
70103786	DI650-1-3(8X21)-ADJ	650	1	2	I - 1.5	adjustable	3	20	isolated	100	adjustable	—	5000

Dot Laser, Ø12x40mm

- Operating Voltage 24V DC
- Compact size
- Laser Class 3B
- High Power
- Fixed focus

Size	Ø12x40mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Output Aperture	3mm



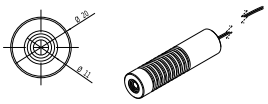


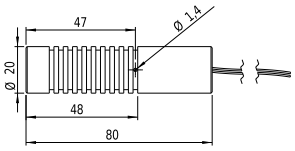
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70121001	DF520-10-24(12X40)	520	10	3B	F - 0.7	<8mm@10m	24	100	VDD(+)	100	collimated	—	6000
70121018	DG520-12-24(12X40)	520	12	3B	G - 0.8	<8mm@10m	24	50	isolated	100	collimated	—	6000

Dot Laser, Ø20x80mm

- Operating Voltage 3V DC
- Compact size

Size	Ø20x80mm
Beam Shape	Dot
Beam Diameter	3.5mm
Material	aluminium
Optics	glass lens AR coated
Output Aperture	5mm





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70100853	DD532-1-3(20X80)	532	1	2	D - 0.5	<4mm@10m	3	160	isolated	100	collimated	—	5000
70101218	DD532-10-3(20X80)	532	10	3B	D - 0.5	<3..5mm@10m	3	250	isolated	100	collimated	—	5000

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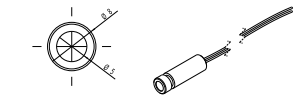
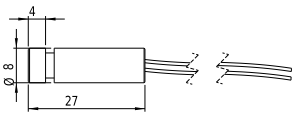
Dot Laser, Ø10x27mm

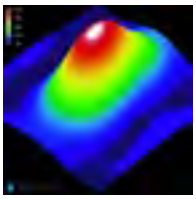
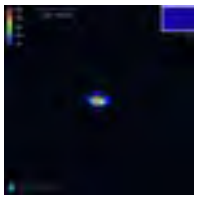
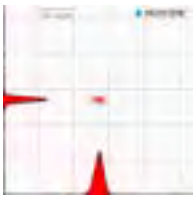
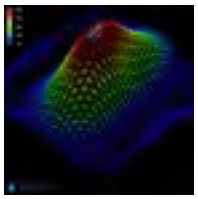
- Operating Voltage 6V DC
- Laser Class 3R
- Adjustable focus
- Compact size
- Glas lenses anti reflex coated

Size	Ø10x27mm
Beam Shape	Dot
Material	Brass
Optics	glass lens AR coated
Output Aperture	3.5mm





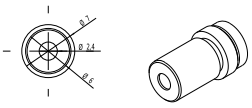
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70102772	DC650-4.5-6(10X27)	650	4.5	3R	C - 0.4	adjustable	6	30	isolated	100	adjustable	—	5000

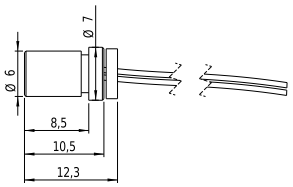





Dot Laser, Ø7x14mm

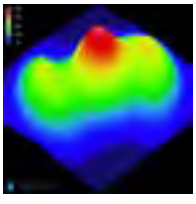
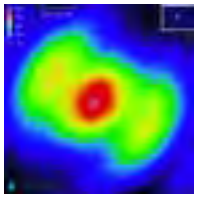
- Operating Voltage 3V DC
- Laser Class 3R
- Compact size
- Small laser head
- Low power consumption

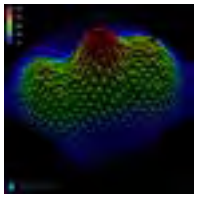
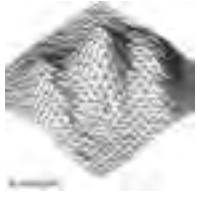
Size	Ø7x14mm
Beam Shape	Dot
Beam Diameter	2.5mm
Material	aluminium
Optics	acryl lense
Output Aperture	2.5mm





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70105865	DG650-5-3(7X14)	650	5	3R	G - 0.8	<4..6mm@5m	3	33	isolated	100	collimated	—	5000

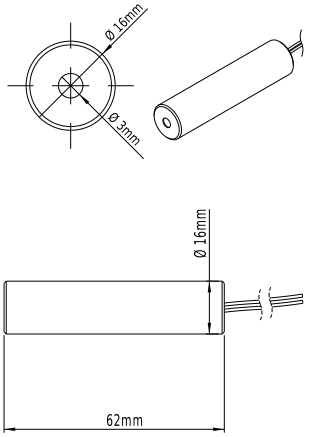



Dot Laser, Ø16x62mm

- For 8mm DOE
- Low Power consumption
- Direct green 520nm

Size	Ø16x62mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Output Aperture	3mm
PCB	—

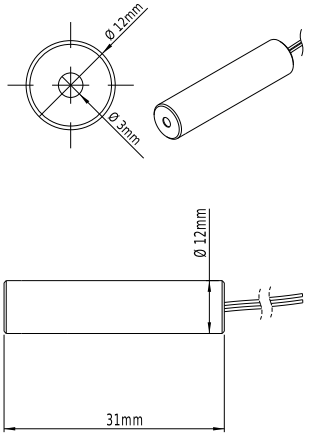


Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Size of Laserdot	Operating Voltage V DC	Operating Current mA	Potential of Housing	Cable length mm	Focus	Max. Mod. Frequency kHz	Lifetime h
70132564	DD520-5-3-F(16X62)-QCW-DOE	520	5	3R	D - 0.5	adjustable	3	180	isolated	100	adjustable	—	6000

Dot Laser, Ø12x31mm

- Operating Voltage 5V DC
- Compact size
- High Power
- Adjustable focus
- Laser Class 3B

Size	Ø12x31mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Output Aperture	3mm



Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Size of Laserdot	Operating Voltage V DC	Operating Current mA	Potential of Housing	Cable length mm	Focus	Max. Mod. Frequency kHz	Lifetime h
70123890	DC658-40-5(12X31)	658	40	3B	C - 0.4	3mm@10m	5	110	isolated	250	collimated	—	5000

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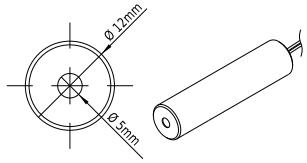
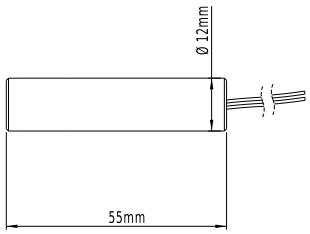
Dot Laser, Ø12x55mm

- Isolated housing
- Laser Class 3R
- Compact size
- Anti-reflex coating

Size	Ø12x55mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Output Aperture	5mm



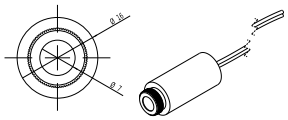


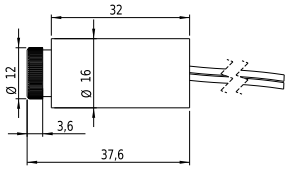
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Size of Laserdot	Operating Voltage V DC	Operating Current mA	Potential of Housing	Cable length mm	Focus	Max. Mod. Frequency kHz	Lifetime h
70118698	DA520-5-3(12X55)-QCW	520	5	3R	A - 0.1	adjustable	3	50	isolated	100	adjustable	—	6000

Dot Laser, Ø16x32mm

- Laser Class 3R
- Operating Voltage 3V DC
- Glas lenses anti reflex coated
- Adjustable focus
- Compact size

Size	Ø16x32mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Output Aperture	8mm



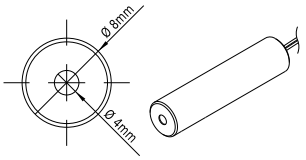


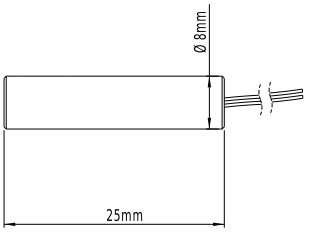
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Size of Laserdot	Operating Voltage V DC	Operating Current mA	Potential of Housing	Cable length mm	Focus	Max. Mod. Frequency kHz	Lifetime h
70101188	DB650-3-3(16X32)	650	3	3R	B - 0.3	adjustable	3	25	isolated	100	adjustable	—	5000

Dot Laser, Ø8x25mm

- Laser Class 3R
- Operating Voltage 3V DC
- Compact size
- Glas lenses anti reflex coated
- Fixed focus

Size	Ø8x25mm
Beam Shape	Dot
Beam Diameter	4mm
Material	aluminium
Optics	glass lens AR coated
Output Aperture	4mm



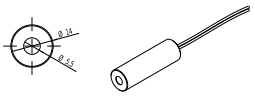


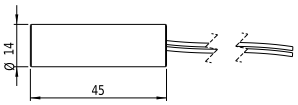
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70124774	DC980-1-3(8X25)	980	1	3R	C - 0.4	<4..5mm@5m	3	15	VDD(+)	100	collimated	—	5000

Dot Laser, Ø14x45mm

- Laser Class 3B
- Low power consumption
- Image processing

Size	Ø14x45mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Output Aperture	5.5mm





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70118568	DH658-60-3(14X45)	658	60	3B	H - 1.0	<10mm@20m	3	120	isolated	100	collimated	—	10000

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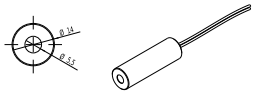
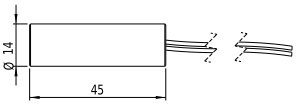
Dot Laser, Ø14x45mm

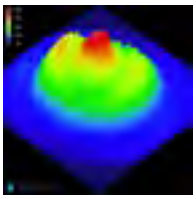
- Operating Voltage 3V DC
- Fixed focus
- Image processing
- Small laser head
- Laser Class 3R

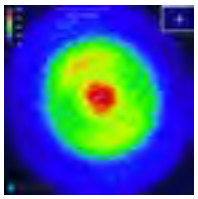
Size	Ø14x45mm
Beam Shape	Dot
Beam Diameter	2mm
Material	aluminium
Optics	glass lens AR coated
Output Aperture	2mm

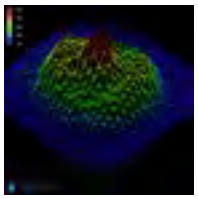


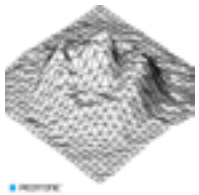


Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Size of Laserdot	Operating Voltage V DC	Operating Current mA	Potential of Housing	Cable length mm	Focus	Max. Mod. Frequency kHz	Lifetime h
70117455	DA635-5-3(14X45)70117455	635	5	3R	A - 0.1	<2mm@20cm	3	110	isolated	100	collimated	—	5000





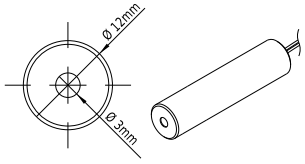


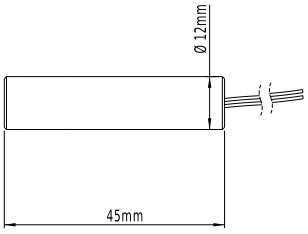


Dot Laser, Ø12x45mm

- Operating Voltage 3V DC
- Fixed focus
- Laser Class 2
- Compact size

Size	Ø12x45mm
Beam Shape	Dot
Beam Diameter	2.5mm
Material	aluminium
Optics	glass lens AR coated
Output Aperture	3mm



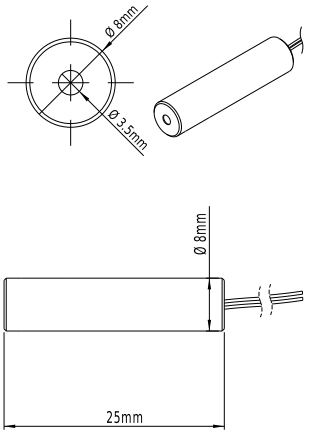


Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Size of Laserdot	Operating Voltage V DC	Operating Current mA	Potential of Housing	Cable length mm	Focus	Max. Mod. Frequency kHz	Lifetime h
70125702	DD532-1-3(12X45)-PRO	532	1	2	D - 0.5	4..5mm@3m	3	250	isolated	100	collimated	—	5000

Dot Laser, Ø8x25mm

- Operating Voltage 3V DC
- Laser Class 2
- Low power consumption
- Compact size
- High Temperature

Size	Ø8x25mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Output Aperture	3.5mm
Power Supply included	—
Connector	JST ZHR 2 2pol 1.5mm Pitch

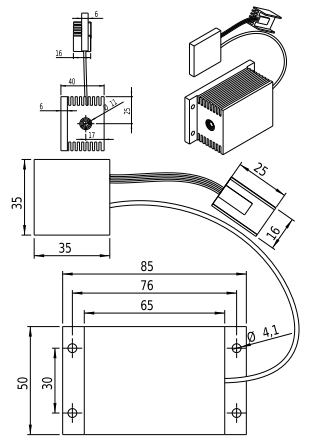


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70125993	DC650-1-3(8X25)-HT-CON-JST	650	1	2	C - 0.4	<6mm@10m	3	20	isolated	200	collimated	—	2000

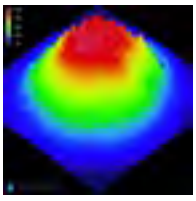
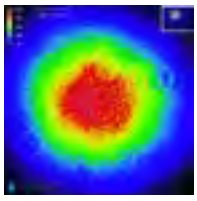
Dot Laser, 85x50x40mm

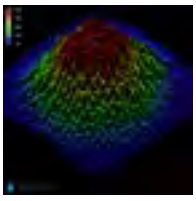
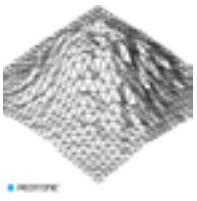
- High Power
- External pcb
- Operating Voltage 5V DC
- Laser Class 3B
- Glas lenses anti reflex coated

Size	85x50x40mm
Beam Shape	Dot
Beam Diameter	3.5mm
Material	aluminium
Optics	glass lens AR coated
Output Aperture	5mm



Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70101461	DD532-50-5(85X50X40)	532	50	3B	D - 0.5	4mm@10m	5	450	isolated	100	collimated	—	5000

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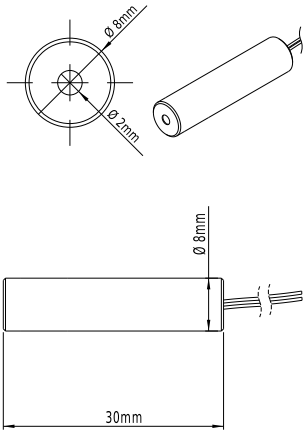
Dot Laser, Ø8x30mm

- Axial parallel
- Low power consumption
- Compact size
- Laser Class 2
- Operating Voltage 3V DC

Size	Ø8x30mm
Beam Shape	Dot
Beam Diameter	2mm
Material	aluminium
Optics	glass lens AR coated
Output Aperture	2mm

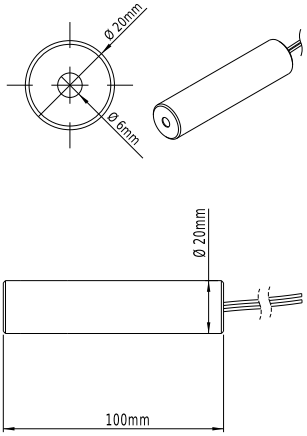


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70115659	DI650-1-3(8X30)-C300-AP	650	1	2	I - 1.5	<3..5mm@5m	3	25	isolated	300	collimated	—	5000

Dot Laser, Ø20x100mm

- DOE Laser
- Good visibility: 638nm
- Laser Class depends on DOE

Size	Ø20x100mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Output Aperture	6mm
Connector	2.5 mm DC socket (GND pole

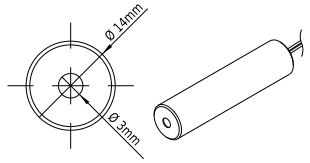


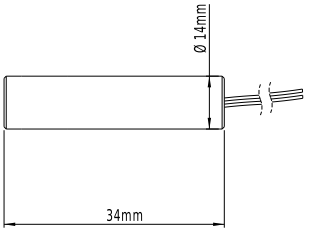
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70121353	DOE-D638-60-3-F(20X100)	638	60	3B	D - 0.5	adjustable	3	120	isolated	200	adjustable	—	5000

Dot Laser, Ø14x34mm

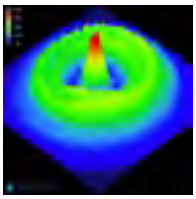
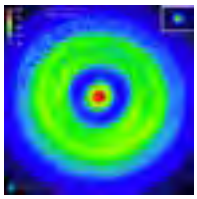
- Operating Voltage 5V DC
- Laser Class 3R
- Image processing
- Glas lenses anti reflex coated
- Uniform illumination

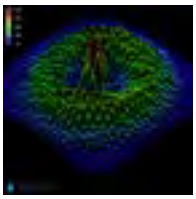
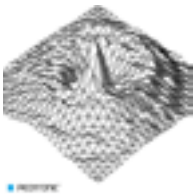
Size	Ø14x34mm
Beam Shape	Dot
Beam Diameter	3mm
Material	aluminium
Optics	glass lens AR coated
Output Aperture	3mm





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70115413	DDI650-7-5(14X34)	650	7	3R	D - 0.5		5	60	isolated	100	fixed	—	5000

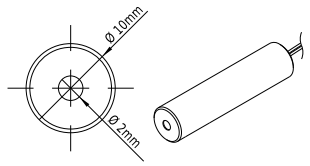



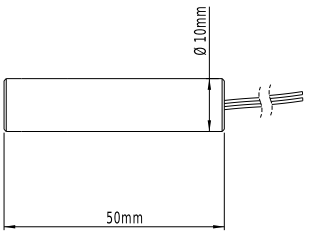



Dot Laser, Ø10x50mm

- Operating Voltage 5V DC
- Laser Class 2
- Low power consumption
- Compact size
- Fixed focus

Size	Ø10x50mm
Beam Shape	Dot
Beam Diameter	2mm
Material	aluminium
Optics	glass lens AR coated
Output Aperture	2mm





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70125870	DI650-1-5(10X50)	650	1	2	I - 1.5	<3..5mm@10m	5	22	isolated	1700	collimated	—	5000

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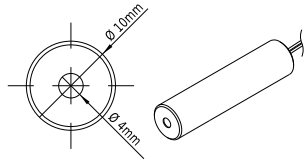
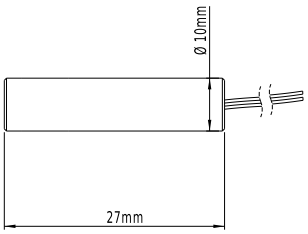
Dot Laser, Ø10x27mm

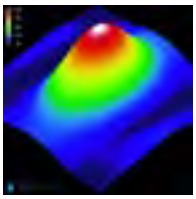
- Low power consumption
- Image processing
- Compact size
- Laser Class 1
- Operating Voltage 6V DC

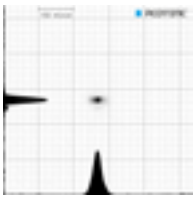
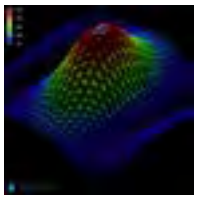
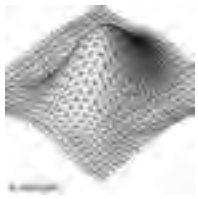
Size	Ø10x27mm
Beam Shape	Dot
Material	Stainless Steel
Optics	glass lens AR coated
Output Aperture	4mm





Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Size of Laserdot	Operating Voltage V DC	Operating Current mA	Potential of Housing	Cable length mm	Focus	Max. Mod. Frequency kHz	Lifetime h
70102680	DC850-0.4-6(10X27)	850	0.4	1	C - 0.4	adjustable	6	12	isolated	100	adjustable	—	5000

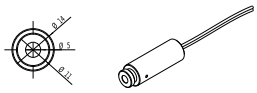


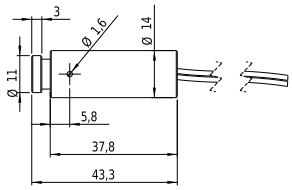




Modulated Dot Laser, Ø14x45mm

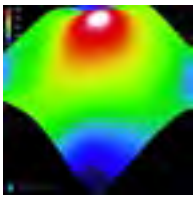
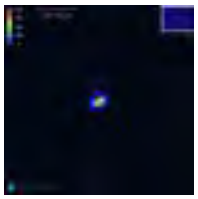
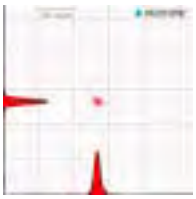
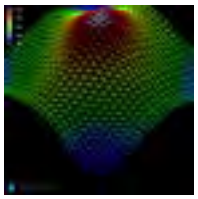
- Operating Voltage 5V DC
- Modulated
- Compact size
- Laser Class 3B
- Adjustable focus

Size	Ø14x45mm
Beam Shape	Dot
Material	Brass
Optics	glass lens AR coated
Output Aperture	5mm





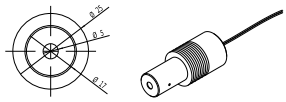
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Size of Laserdot	Operating Voltage V DC	Operating Current mA	Potential of Housing	Cable length mm	Focus	Max. Mod. Frequency kHz	Lifetime h
70101935	MH650-16-5(14X45)	650	16	3B	H - 1.0	adjustable	5	120	isolated	100	adjustable	500	5000

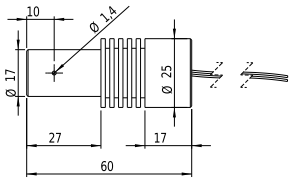





Dot Laser, Ø25x60mm

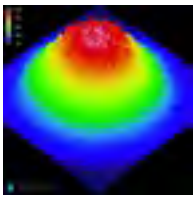
- Operating Voltage 3V DC
- Laser Class 3B
- High Power
- Small laser head
- Fixed focus

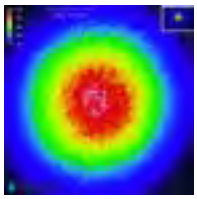
Size	Ø25x60mm
Beam Shape	Dot
Beam Diameter	5mm
Material	aluminium
Optics	glass lens AR coated
Output Aperture	5mm

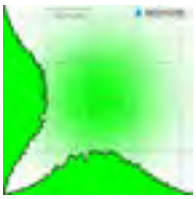


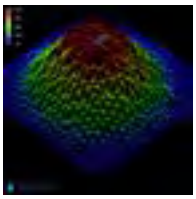


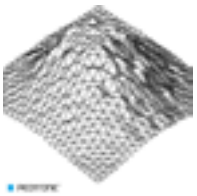
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70103038	DD532-25-3(25X60)	532	25	3B	D - 0.5	<3..5mm@10m	3	350	VDD(+)	100	collimated	—	5000







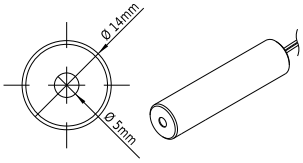


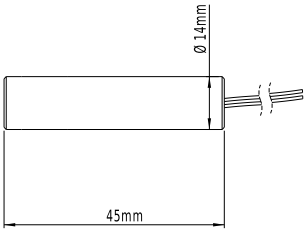


Modulated Dot Laser, Ø14x45mm

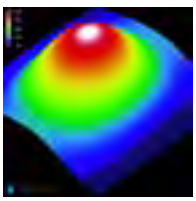
- Operating Voltage 5V DC
- Glas lenses anti reflex coated
- Adjustable focus
- Modulated
- Laser Class 3B

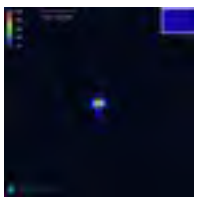
Size	Ø14x45mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Output Aperture	5mm
PCB	✓
PCB size	40x25x10mm

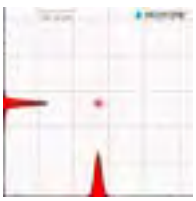


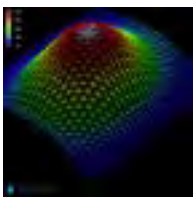


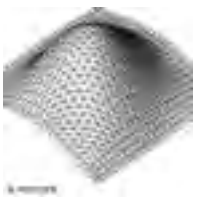
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70106787	AMH650-10-5(14X45)	650	10	3B	H - 1.0	adjustable	5	50	isolated	100	adjustable	10	5000











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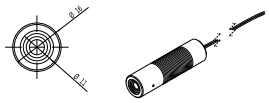
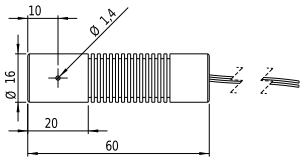
Dot Laser, Ø16x60mm

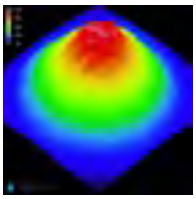
- Operating Voltage 3V DC
- Laser Class 3R
- Compact size
- Glas lenses anti reflex coated
- Fixed focus

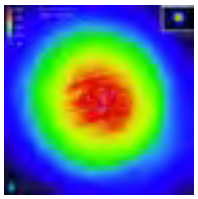
Size	Ø16x60mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Output Aperture	5mm

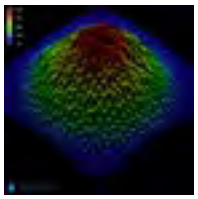


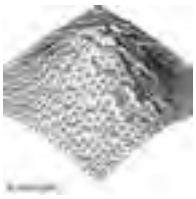


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70101072	DD532-3-3(16X60)	532	3	3R	D - 0.5	<3..5mm@10m	3	250	isolated	100	collimated	—	5000





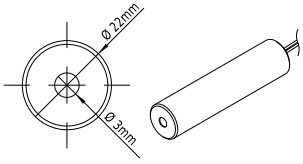


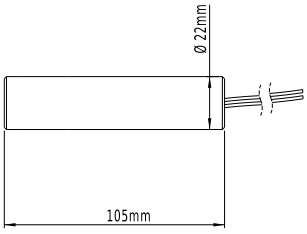


Dot Laser, Ø22x105mm

- Axial parallel
- With battery
- Glas lenses anti reflex coated
- Compact size
- Laser Class 2

Size	Ø22x105mm
Beam Shape	Dot
Beam Diameter	3mm
Material	aluminium
Optics	glass lens AR coated
Output Aperture	3mm
Battery	CR123A



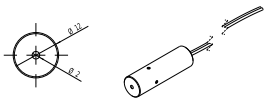


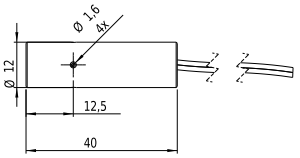
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70122305	DD532-1-3(22X105)-S-AP	532	1	2	D - 0.5	<3.5mm@5m	3	150			collimated	—	5000

Dot Laser, Ø12x40mm

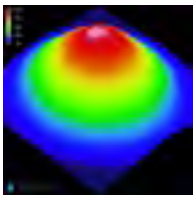
- Operating Voltage 3V DC
- Isolated housing
- Laser Class 2
- Fixed focus
- Compact size

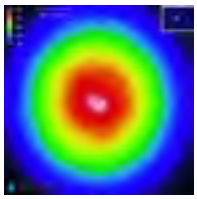
Size	Ø12x40mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Output Aperture	5mm

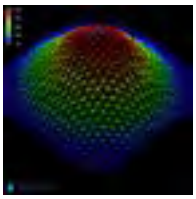


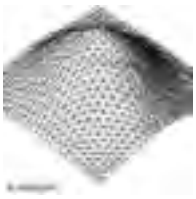


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70113303	DBI650-1-3-FA(12X40)-F3400	650	1	2	B - 0.3	<1.25mm@3.4m	3	21	isolated	120	fixed (3.4m)	—	5000





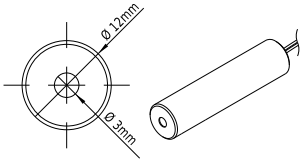


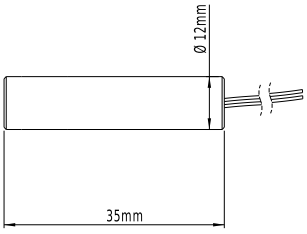


Dot Laser, Ø12x35mm

- For 8mm DOE
- Low Power consumption
- Direct green 520nm

Size	Ø12x35mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Output Aperture	3mm
PCB	✓
PCB size	22x12x2.4mm





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70123692	DD520-5-5(12X35)-QCW-DOE	520	5	3R	D - 0.5	<8mm@10m	5	200	isolated	100	collimated	—	6000

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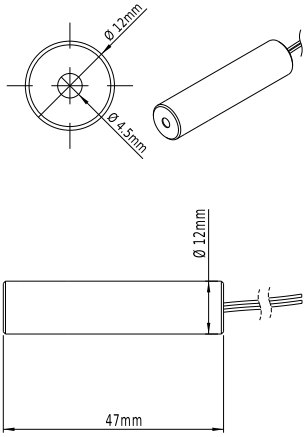
Dot Laser, Ø12x47mm

- Low Power consumption
- Direct green 520nm

Size	Ø12x47mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Output Aperture	4.5mm
PCB	—

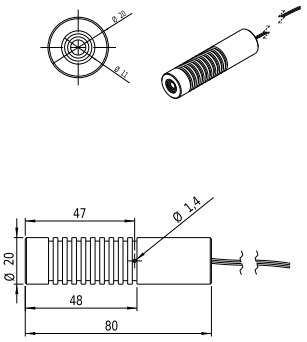


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70125740	DI520-1-3(12X47)	520	1	2	I - 1.5	<8mm@10m	3	120	isolated	150	collimated	—	10000

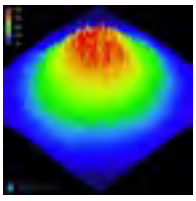
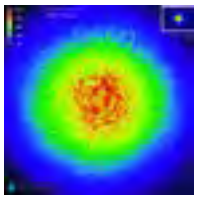
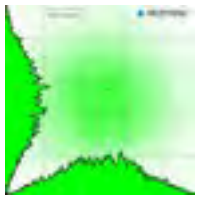
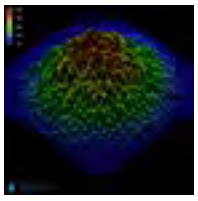
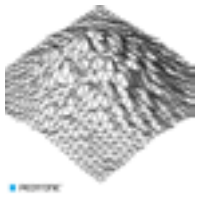
Dot Laser, Ø20x80mm

- Laser Class 3R
- Operating Voltage 3V DC
- Compact size
- Fixed focus
- Image processing

Size	Ø20x80mm
Beam Shape	Dot
Beam Diameter	4mm
Material	aluminium
Optics	glass lens AR coated
Output Aperture	5mm



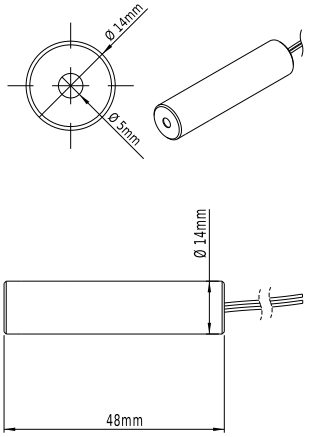
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70101119	DD532-5-3(20X80)	532	5	3R	D - 0.5	<4mm@10m	3	200	isolated	100	collimated	—	5000

Dot Laser, Ø14x48mm

- Operating Voltage 3V DC
- Adjustable focus
- Image processing
- Small laser head
- Laser Class 3R

Size	Ø14x48mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Output Aperture	5mm

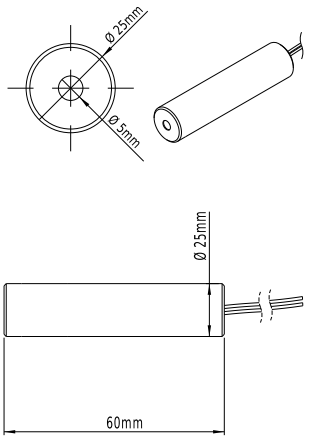


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70125580	DB635-5-3-FA(14X48)-ADJ	635	5	3R	B - 0.3	adjustable	3	60	isolated	100	adjustable	—	5000

Dot Laser, Ø25x60mm

- Compact size
- High Power
- Laser Class 3B
- Operating Voltage 5V DC
- Glas lenses anti reflex coated

Size	Ø25x60mm
Beam Shape	Dot
Beam Diameter	5mm
Material	aluminium
Optics	glass lens AR coated
Output Aperture	5mm
PCB size	35x35x35mm



Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70103045	DD532-30-5(25X60)	532	30	3B	D - 0.5	<4..5mm@10m	5	400	isolated	100	collimated	—	5000

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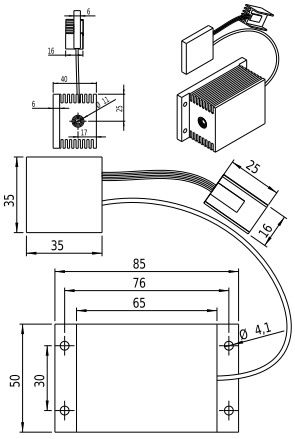
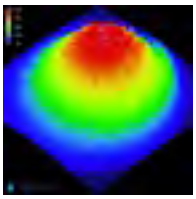
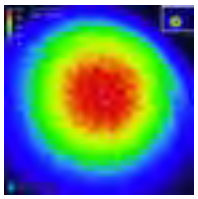
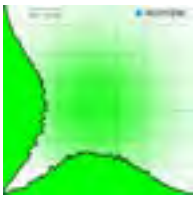
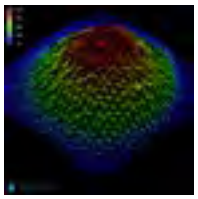
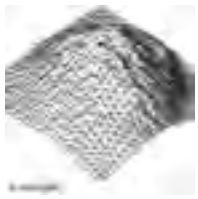
Dot Laser, 85x50x40mm

- Operating Voltage 5V DC
- Laser Class 3B
- Glas lenses anti reflex coated
- High Power
- Small laser head

Size	85x50x40mm
Beam Shape	Dot
Beam Diameter	5mm
Material	aluminium
Optics	glass lens AR coated
Output Aperture	5mm



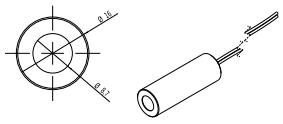
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Size of Laserdot	Operating Voltage V DC	Operating Current mA	Potential of Housing	Cable length mm	Focus	Max. Mod. Frequency kHz	Lifetime h
70107135	DA532-50-5(85X50X40)	532	50	3B	A - 0.1	4mm@10m	5	500	isolated	100	collimated	—	10000

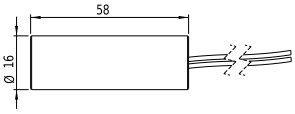






Dot Laser, Ø16x58mm

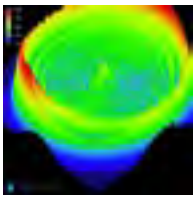
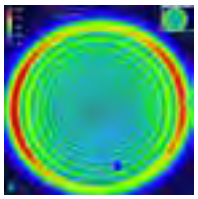
- Operating Voltage 3V DC
- Laser Class 3R
- Fixed focus
- Glas lenses anti reflex coated
- Compact size

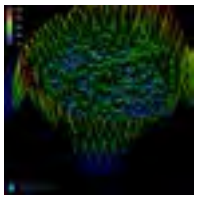
Size	Ø16x58mm
Beam Shape	Dot
Beam Diameter	9mm
Material	Brass
Optics	glass lens AR coated
Output Aperture	9mm





Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Size of Laserdot	Operating Voltage V DC	Operating Current mA	Potential of Housing	Cable length mm	Focus	Max. Mod. Frequency kHz	Lifetime h
70100716	DA650-2-3(16X58)	650	2	3R	0.2	<9.5mm@40m	3	30	isolated	100	collimated	—	5000

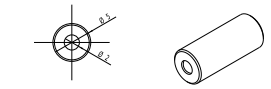



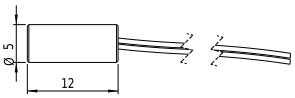


Dot Laser, Ø5x12mm

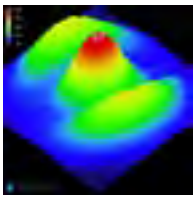
- Operating Voltage 3V DC
- Laser Class 2
- Compact size
- Glas lenses anti reflex coated

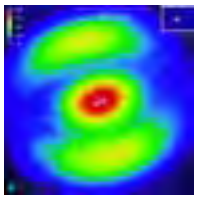
Size	Ø5x12mm
Beam Shape	Dot
Beam Diameter	2mm
Material	Brass
Optics	glass lens AR coated
Output Aperture	2mm

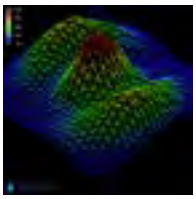


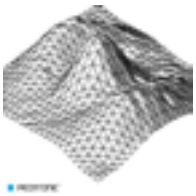


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70105322	DI650-1-3(5X12)	650	1	2	I - 1.5	<3..5mm@5m	3	17	GND(-)	100	collimated	—	5000





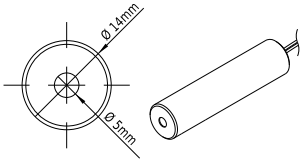


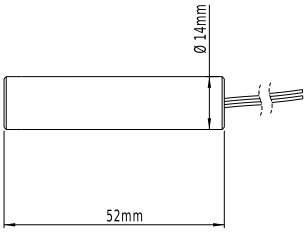


Modulated Dot Laser, Ø14x52mm

- Operating Voltage 5V DC
- Fixed focus
- Image processing
- Small laser head
- Laser Class 1

Size	Ø14x52mm
Beam Shape	Dot
Beam Diameter	5mm
Material	aluminium
Optics	glass lens AR coated
Output Aperture	5mm





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70122176	MDB980-0.4-5-FA(14X52)	980	0.4	1	B - 0.3	<300mm@50m	5	12	isolated	100	fixed (50.0m)	50	5000

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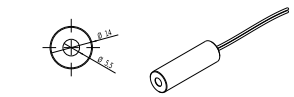
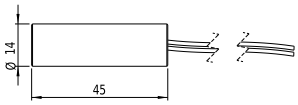
Dot Laser, Ø14x45mm

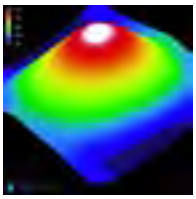
- Operating Voltage 3V DC
- Fixed focus
- Image processing
- Small laser head
- Laser Class 3R

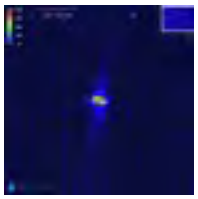
Size	Ø14x45mm
Beam Shape	Dot
Beam Diameter	2mm
Material	aluminium
Optics	glass lens AR coated
Output Aperture	5mm

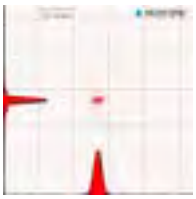


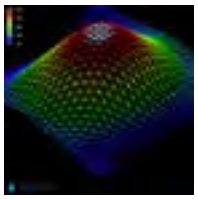


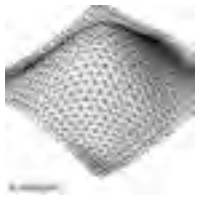
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70117097	DH635-5-3(14X45)-70117097	635	5	3R	H - 1.0		3	45	isolated	100	collimated	—	5000







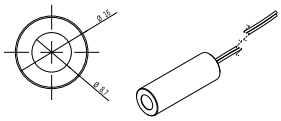


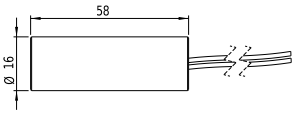


Dot Laser, Ø16x58mm

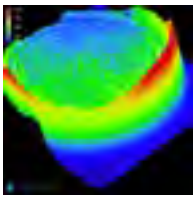
- Glas lenses anti reflex coated
- Operating Voltage 3V DC
- Laser Class 2
- Fixed focus
- Compact size

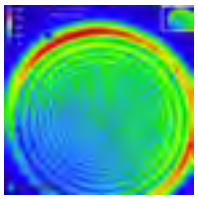
Size	Ø16x58mm
Beam Shape	Dot
Beam Diameter	9mm
Material	aluminium
Optics	glass lens AR coated
Output Aperture	9mm

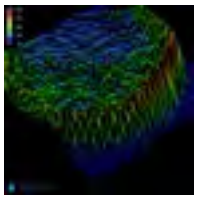




Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70100099	DA635-1-3(16X58)	635	1	2	0.2	<9.5mm@40m	3	40	isolated	100	collimated	—	5000



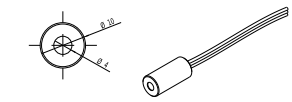


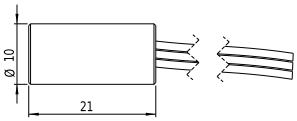


Modulated Dot Laser, Ø10x21mm

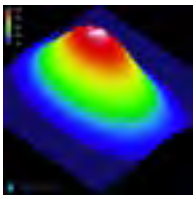
- Operating Voltage 5V DC
- Modulated
- Laser Class 3R
- Compact size
- Glas lenses anti reflex coated

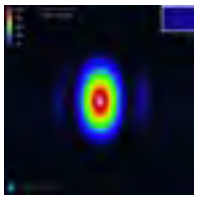
Size	Ø10x21mm
Beam Shape	Dot
Beam Diameter	2.5mm
Material	Brass
Optics	glass lens AR coated
Output Aperture	2mm

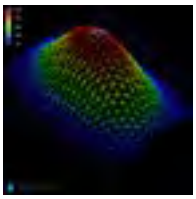


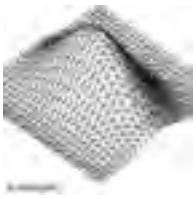


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70115048	MI650-5-5(10X21)	650	5	3R	D - 0.5	<2.5mm@1m	5	25	isolated	100	collimated	500	5000





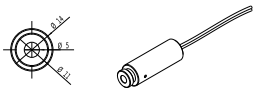


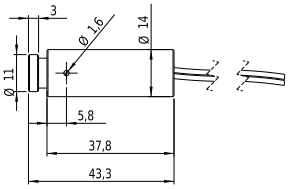


Dot Laser, Ø14x45mm

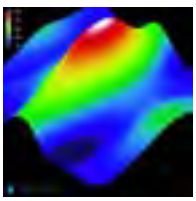
- Laser Class 3R
- Operating Voltage 3V DC
- Glas lenses anti reflex coated
- Adjustable focus
- Compact size

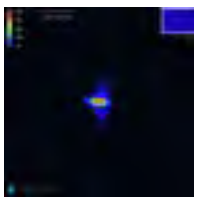
Size	Ø14x45mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated

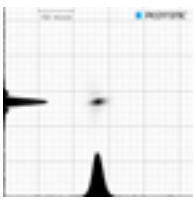


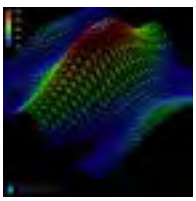


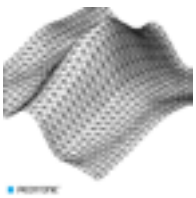
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70103175	DH850-4-3(14X45)	850	4	3R	H - 1.0	adjustable	3	40		100	adjustable	—	5000











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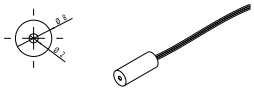
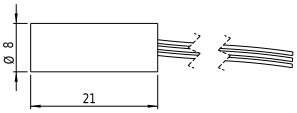
Dot Laser, Ø8x21mm

- Axial parallel
- Low power consumption
- Compact size
- Laser Class 2
- Operating Voltage 5V DC

Size	Ø8x21mm
Beam Shape	Dot
Beam Diameter	2mm
Material	aluminium
Optics	glass lens AR coated
Output Aperture	2.5mm
Connector	2.1 mm DC plug (GND pole



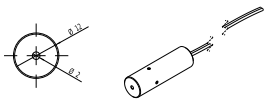


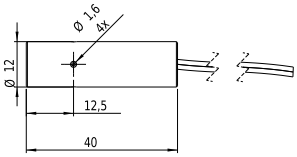
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Size of Laserdot	Operating Voltage V DC	Operating Current mA	Potential of Housing	Cable length mm	Focus	Max. Mod. Frequency kHz	Lifetime h
70125542	DI650-1-5(8X21)-AP-C	650	1	2	I - 1.5	<3..5mm@5m	5	23	isolated	100	collimated	—	5000

Dot Laser, Ø12x40mm

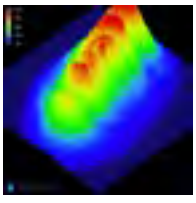
- Operating Voltage 24V DC
- Compact size
- Laser Class 2
- High Power
- Fixed focus

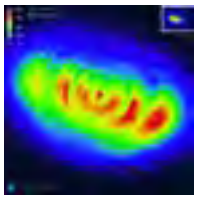
Size	Ø12x40mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Output Aperture	3mm
PCB	—

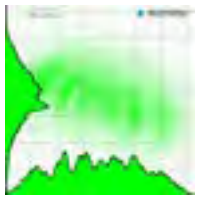


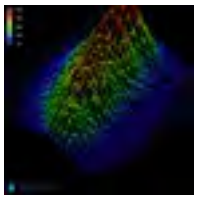


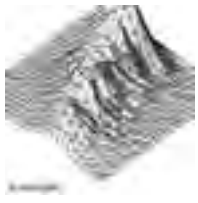
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Size of Laserdot	Operating Voltage V DC	Operating Current mA	Potential of Housing	Cable length mm	Focus	Max. Mod. Frequency kHz	Lifetime h
70121025	DD520-1-24(12X40)-QCW	520	1	2	D - 0.5	<8mm@10m	24	10		100	collimated	—	6000







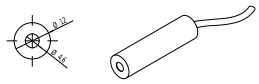


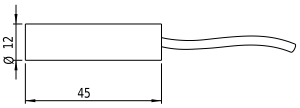


Dot Laser, Ø12x45mm

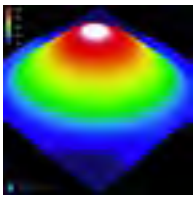
- Axial parallel
- Glas lenses anti reflex coated
- Small package
- Operating Voltage 12V DC
- Laser Class 2

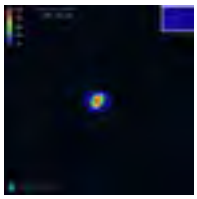
Size	Ø12x45mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Output Aperture	2mm

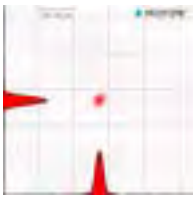


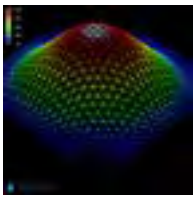


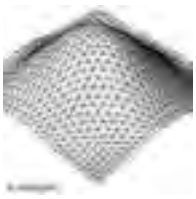
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70119930	DI635-1-12(12X45)-F100-AP	635	1	2	I - 1.5	<0.3mm@0.1m	12	20	isolated	100	fixed (100mm)	—	5000







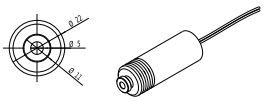


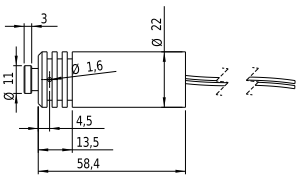


Dot Laser, Ø22x60mm

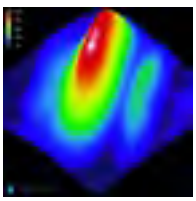
- Laser Class 3B
- Operating Voltage 3V DC
- Adjustable focus
- Compact size
- Image processing

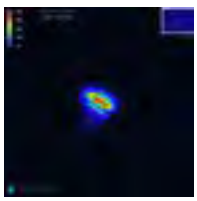
Size	Ø22x60mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Output Aperture	5mm

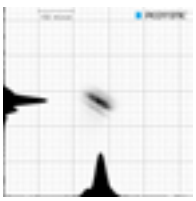


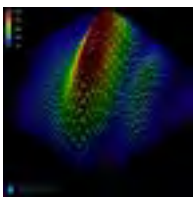


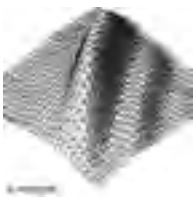
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70102703	DH980-40-3(22X60)	980	40	3B	H - 1.0	adjustable	3	35	isolated	100	adjustable	—	5000











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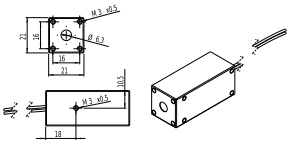
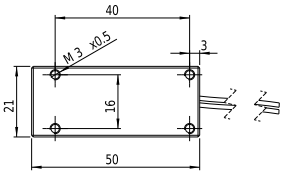
Dot Laser, 21x21x50mm

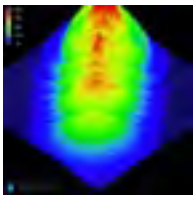
- Laser Class 2
- Operating Voltage 3V DC
- Compact size
- Fixed focus
- Glas lenses anti reflex coated

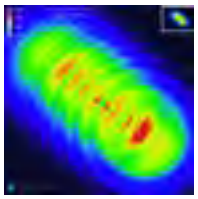
Size	21x21x50mm
Beam Shape	Dot
Beam Diameter	5mm
Material	aluminium
Optics	glass lens AR coated
Output Aperture	5mm

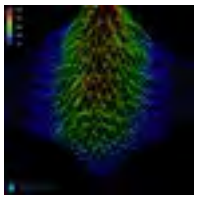




Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70109306	DD635-1-3(21X21X50)	635	1	2	D - 0.5	<5mm@5m	3	25	isolated	100	collimated	—	5000



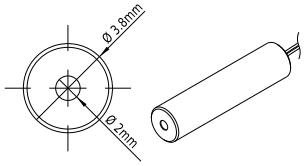


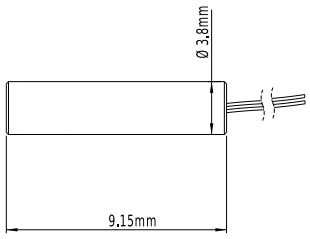


Dot Laser, Ø3.8x9.15mm

- Operating Voltage 5V DC
- Compact size
- Laser Class 2
- High Power
- Fixed focus

Size	Ø3.8x9.15mm
Beam Shape	Dot
Material	Brass
Optics	glass lens AR coated
Output Aperture	2mm
PCB	✓
PCB size	Ø7x18mm



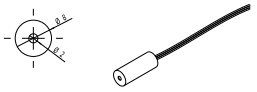


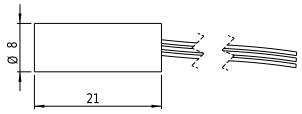
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70118384	DF520-1-5(3.8X9.15)-QCW	520	1	2	F - 0.7	<12mm@10m	5	30		100	collimated	—	6000

Dot Laser, Ø8x21mm

- Operating Voltage 3V DC
- Laser Class 3R
- Compact size
- Fixed focus
- Uniform illumination

Size	Ø8x21mm
Beam Shape	Dot
Beam Diameter	2.5mm
Material	Brass
Optics	glass lens AR coated
Output Aperture	2.5mm



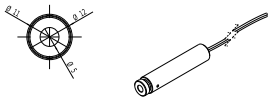


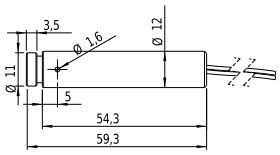
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70101065	DI670-2.5-3(8X21)	670	2.5	3R	I - 1.5	<3..5mm@5m	3	30	isolated	100	collimated	—	5000

Dot Laser, Ø12x60mm

- Operating Voltage 5V DC
- Adjustable focus
- Laser Class 2
- Compact size
- Modulated

Size	Ø12x60mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Output Aperture	2mm





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Cable length	Focus	Max. Mod. Frequency	Lifetime
		nm	mW		mrad		V DC	mA		mm		kHz	h
70120196	DD658-10-5-F(12X60)-POTI	658	10	3B	D - 0.5	adjustable	5	100	isolated	100	adjustable	—	5000

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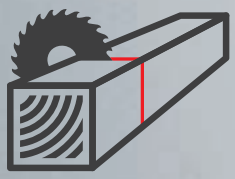
MESSEN.
AUSRICHTEN.
POSITIONIEREN.

WIR MACHEN ES MÖGLICH.

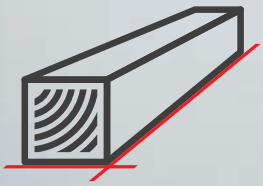
PICOTRONIC®

OHNE UMWEGE VON A NACH B.

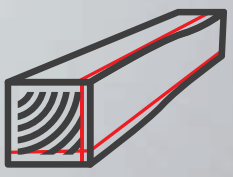
Noch nie war Ausrichten, Messen und Positionieren so einfach wie mit den Linienlasermodulen von Picotronic! Benutzerfreundlich und komfortabel in der Bedienung, ersetzt der Laser jedes Lineal und jeden Winkel – und ermöglicht freihändiges, exaktes und schnelles Arbeiten. Die Anwendungsmöglichkeiten sind vielfältig: Fragen Sie nach, wir beraten Sie gerne!



Anzeige von Schnittlinien an Kreis-, Brücken-, Band- und Gattersägen, Blech- und Furnierscheren ...



Anzeige der Positionierung bei Produktion, Montage, Pressen, Bestücken, Ziehen, Verschrauben, Bedrucken ...



Weitere Einsatzbereiche: Nivellierung, Vermessung, Kalibrierung, Laser-Wasserwaagen, Laser-Scanning ...

LD-/LB-Laser mit Mount-Base-Plate-01 (optionales Zubehör)

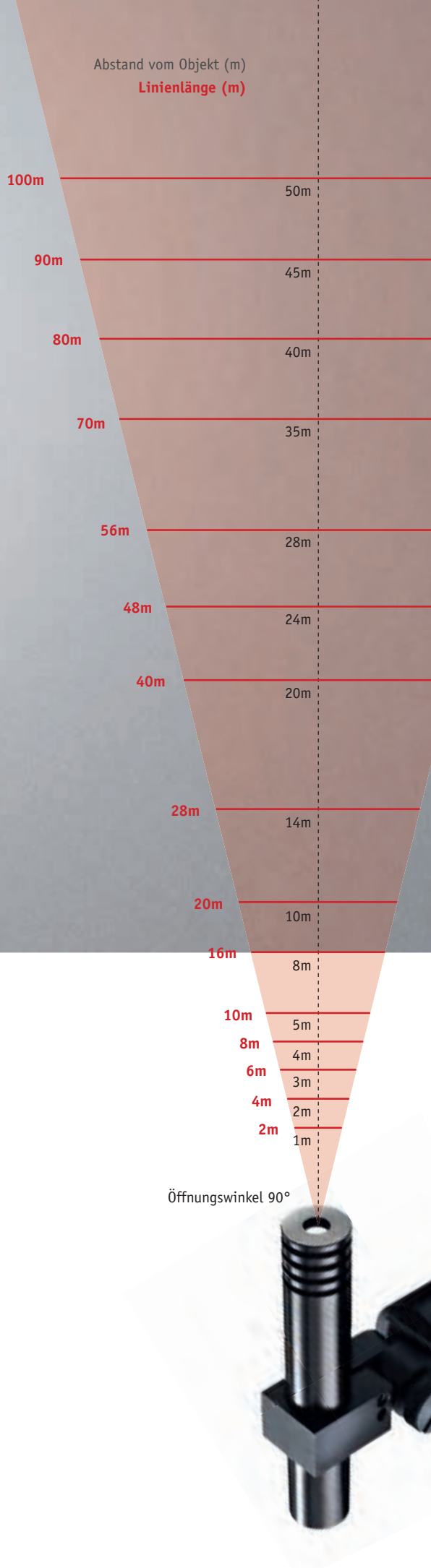
LH-Laser (Halterung und Netzteil inklusive)

	Artikel-Nr.	Typ	Farbe (nm)	Öffnungswinkel	Leistung (mW)	Liniendicke (mm)	Laserklasse (DIN EN 60825-1)	Betriebsspannung (V)	Arbeitsbereich (m)	Abmaße (mm)
	70113181	**LB650-15-230(40x210)-F3000**	● (650nm)	90°	15mW	<1.5mm@3m	1	230V AC 50Hz	1 bis 5m	40x210mm
	70110227	**LB658-50-230(40x210)**	● (658nm)	90°	50mW	<3mm@7m	2M	230V AC 50Hz	3 bis 25m	40x210mm
	70115475	**LB658-50-24(40x210)**	● (658nm)	90°	50mW	<3mm@7m	2M	24V DC	3 bis 25m	40x210mm
NEW	*70118520*	**LE520-30-230(40x210)**	● (520nm)	90°	30mW	<3mm@7m	2M	230V AC 50Hz	3 bis 25m	40x210mm
	70110234	**LD532-30-230(40x210)**	● (532nm)	90°	30mW	<3mm@7m	2M	230V AC 50Hz	3 bis 25m	40x210mm
	70115499	**LD532-30-24(40x210)**	● (532nm)	90°	30mW	<3mm@7m	2M	24V DC	3 bis 25m	40x210mm
	70112764	**LD532-50-230(40x210)**	● (532nm)	90°	50mW	<3mm@7m	2M	230V AC 50Hz	3 bis 30m	40x210mm
	70115482	**LD532-50-24(40x210)**	● (532nm)	90°	50mW	<3mm@7m	2M	24V DC	3 bis 30m	40x210mm
	70116991	**LH650-16(16x90)-NT-MOUNT** inkl. Halterung & Netzteil	● (650nm)	90°	16mW	<1mm@3m	1	230V AC 50Hz	1 bis 5m	16x90mm

WAS SIE UNBEDINGT NOCH WISSEN SOLLTEN!

- Die Qualitätssicherung der LD-/LB- und LH-Linienlaser erfolgt durch geschultes Fachpersonal in Deutschland.
- Die Linienlaser sind maximal der Laserklasse 2M zugeordnet und können gemäß BGV B2 anmeldefrei betrieben werden.
- Für die Verwendung ist in Ihrem Betrieb KEIN Laserschutzbeauftragter erforderlich.
- Unsere Linienlaser sind von geprüfter Sicherheit nach der DIN EN 60825-1, werden steckerfertig ausgeliefert und v erfügen über alle gesetzlich erforderlichen Kennzeichnungen.

Sie haben noch weitere Fragen? Wir freuen uns darauf!



PICOTRONIC®

UNSERE EDELSTAHL-LASER

Our stainless steel lasers

Überall dort, wo Feuchtigkeit & Verschmutzung die eingesetzten Laser rund um die Uhr stark beanspruchen, sind die Picotronic®- Lasermodule mit Edelstahlgehäuse die richtige Wahl.

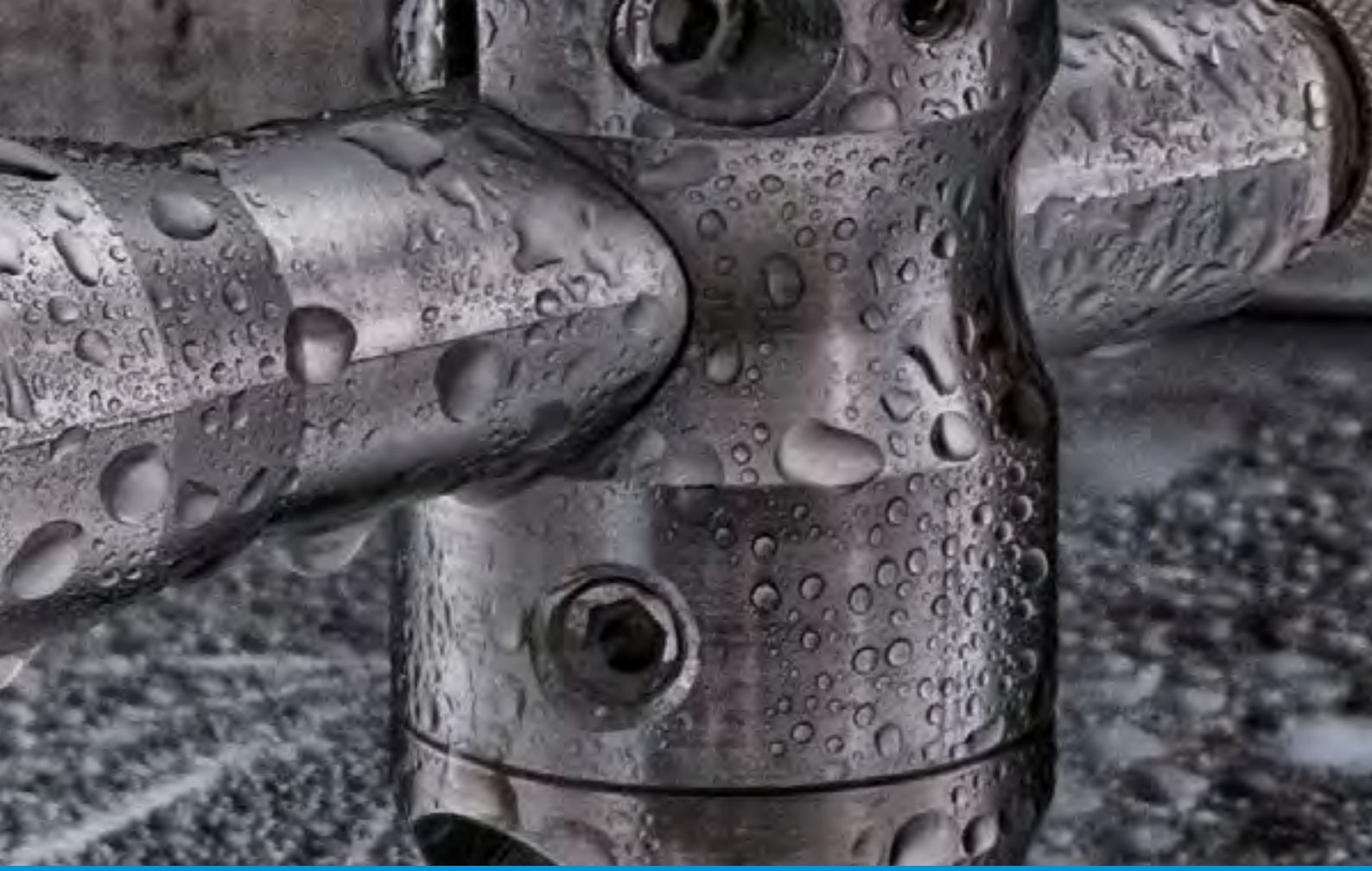
Das robuste Gehäuse schützt zuverlässig gegen Staubbelastung, Korrosion und mechanische Beschädigung und garantiert eine ausfallfreie Funktion über die gesamte Lebensdauer.

Auch in den Bereichen Medizintechnik, Chemische Industrie, Pharmakologie und Lebensmittelverarbeitung erfüllen unsere Edelstahllaser alle technischen und rechtlichen Voraussetzungen.

Picotronic® laser modules with stainless steel housing are the right choice in environments where moist and dirty conditions are a challenge for installed lasers around the clock.

The robust housing reliably protects from dust, corrosion and mechanical damage to guarantee fault-free operation across the entire service life.

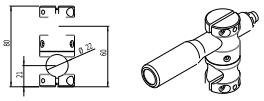
Our stainless steel lasers also meet all technical and legal requirements for application in medical engineering, the chemical industry, pharmacology and food processing.

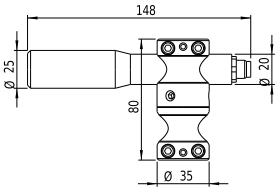


Positioning Laser, Ø20x135mm

- Stainless steel body for industrial applications
- Protection Class (IP64)
- Adjustable line thickness
- M12 industrial connector
- Protection lens

Size	Ø20x135mm
Beam Shape	Line
Material	Stainless Steel
Protection Class	IP64
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	16mm
Connector	CON-M12





Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Lifetime h
70121742	LD450-15-24(20X135)-M12	450	15	2M	90°	adjustable	24	75	✓	isolated	D - 0.5	10000
70121735	LD450-30-24(20X135)-M12	450	30	2M	90°	adjustable	24	100	✓	isolated	D - 0.5	10000
70121711	LD520-15-24(20X135)-M12	520	15	2M	90°	adjustable	24	75	✓	isolated	D - 0.5	10000
70121728	LD520-30-24(20X135)-M12	520	30	2M	90°	adjustable	24	100	✓	isolated	D - 0.5	10000
70124705	LD532-15-24(20X135)-M12	532	15	2M	90°	adjustable	24	75	✓	isolated	D - 0.5	10000
70123647	LD532-20-24(20X135)-M12	532	20	2M	90°	adjustable	24	75	✓	isolated	D - 0.5	10000
70124712	LD532-30-24(20X135)-M12	532	30	2M	90°	adjustable	24	85	✓	isolated	D - 0.5	10000
70124316	LD635-15-5(20X135)-M12	635	15	2M	90°	adjustable	5	120	✓	isolated	D - 0.5	10000
70121759	LD635-15-24(20X135)-M12	635	15	2M	90°	adjustable	24	75	✓	isolated	D - 0.5	10000
70123661	LD635-25-24(20X135)-M12	635	25	2M	90°	adjustable	24	100	✓	isolated	D - 0.5	10000
70121766	LD635-30-24(20X135)-M12	635	30	2M	90°	adjustable	24	100	✓	isolated	D - 0.5	10000

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Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Divergence mrad	Focus	Operating Voltage V DC	Operating Current mA	Size mm	Potential of Housing	Cable length mm	Page
70124620	LE405-1-3(14X45)90DEG-F150	405	1	1	90°	E - 0.6	fixed (150mm)	3	60	Ø14x45	isolated	100	109
70113518	LE405-5-3-F-S(22X100)	405	5	1	90°	E - 0.6	adjustable	3	55	Ø22x100			143
70112733	LE405-5-5-F(14X60)	405	5	1	90°	E - 0.6	adjustable	5	54	Ø14x60	isolated	100	121
70112740	LE405-10-5-F(14X60)	405	10	1	90°	E - 0.6	adjustable	5	61	Ø14x60	isolated	100	online
70115543	LD405-10-24(20X80)-F800	405	10	1	90°	H -	fixed (800mm)	24	20	Ø20x80	isolated	500	105
70125016	LC405-16-3-F(14X55)30	405	16	2M	30°	C - 0.4	adjustable	3	150	Ø14x55	isolated	100	95
70114881	LC405-60-5-F(14X55)	405	60	3R	90°	C - 0.4	adjustable	5	150	Ø14x55	isolated	100	95
70114973	LC405-70-5-F(14X55)	405	70	3R	90°	C - 0.4	adjustable	5	170	Ø14x55	isolated	100	95
70121742	LD450-15-24(20X135)-M12	450	15	2M	90°	D - 0.5	adjustable	24	75	Ø20x135	isolated		92
70121575	LC450-30-24-F(14X55)	450	30	2M	90°	C - 0.4	adjustable	24	37	Ø14x55	isolated	3000	96
70121735	LD450-30-24(20X135)-M12	450	30	2M	90°	D - 0.5	adjustable	24	100	Ø20x135	isolated		92
70119749	LC520-0.1-5-F(16X65)-QCW	520	0.1	1	90°	C - 0.4	adjustable	5	43	Ø16x65	isolated	100	104
70124637	LE520-1-3(14X45)90DEG-F150-QCW	520	1	1M	90°	E - 0.6	fixed (150mm)	3	200	Ø14x45	isolated	100	109
70124651	LI520-4-3(12X47)	520	4	1		I - 1.5	collimated	3	120	Ø12x47	isolated	150	online
70122497	LD520-5-3(12X60)-QCW-F1300	520	5	1	90°	D - 0.5	fixed (1300mm)	3	100	Ø12x60	isolated	100	124
70132496	LC520-5-5-F(16X65)-QCW-C2000	520	5	1	90°	C - 0.4	adjustable	5	58	Ø16x65	isolated	2000	104
70118476	LC520-5-5-F(16X65)-QCW	520	5	1	90°	C - 0.4	adjustable	5	58	Ø16x65	isolated	100	104
70126006	MLE520-10-4.5(15X34)	520	10	1M		E - 0.6	collimated	4.5	150	Ø15x34	isolated	150	online
70122985	LH520-10-24(20X80)-PL-F500-WP	520	10	1M	90°	H -	fixed (500mm)	24	45	Ø20x80	isolated	3000	138
70121209	LD520-10-24(16X80)-C1000-QCW	520	10	1	90°	D - 0.5	fixed (5.0m)	24	50	Ø16x80	isolated	1000	116
70120660	LH520-10-24(20X80)-PL-C3000-WP	520	10	1M	90°	H -	fixed (3000mm)	24	55	Ø20x80	isolated	3000	100
70128826	LH520-10-24(20X80)-PL-C3000	520	10	1M	90°	H -	fixed (3000mm)	24	55	Ø20x80	isolated	3000	100
70121032	LC520-15-24-F(16X65)-QCW	520	15	2M	90°	C - 0.4	adjustable	24	50	Ø16x65	isolated	100	97
70121711	LD520-15-24(20X135)-M12	520	15	2M	90°	D - 0.5	adjustable	24	75	Ø20x135	isolated		92
70125023	LC520-16-3-F(14X55)30-QCW	520	16	2M	30°	C - 0.4	adjustable	3	40	Ø14x55	isolated	100	95
70118483	LC520-20-5-F(16X65)-QCW	520	20	2M	90°	C - 0.4	adjustable	5	150	Ø16x65	isolated	100	97
70118520	LE520-30-230(40X210)	520	30	2M	90°	E - 0.6	fixed (7.0m)	230	10	Ø40x210	isolated	1750	94
70121728	LD520-30-24(20X135)-M12	520	30	2M	90°	D - 0.5	adjustable	24	100	Ø20x135	isolated		92
70120622	LE520-30-24(40X210)	520	30	2M	90°	E - 0.6	fixed (7.0m)	24	100	Ø40x210	isolated	1750	97
70121797	LE520-45-230(40X210)	520	45	2M	90°	E - 0.6	fixed (7.0m)	230	10	Ø40x210	isolated	1750	94
70121773	LE520-45-24(40X210)	520	45	2M	90°	E - 0.6	fixed (7.0m)	24	100	Ø40x210	isolated	1750	97
70104370	LC532-0.4-3-F(16X65)	532	0.4	1	90°	C - 0.4	adjustable	3	200	Ø16x65	isolated	100	97
70129748	L532-1-3(13X70)120DEG-F5000	532	1	2	120°		fixed (5.0m)	3	300	Ø13x70	VDD(+)	127	149
70100884	MLD532-1-5(20X80)	532	1	1	90°	D - 0.5	fixed (1000mm)	5	125	Ø20x80	isolated	100	145
70103748	LD532-1-3(15X70)	532	1	1	90°	D - 0.5	fixed (3000mm)	3	150	Ø15x70	VDD(+)	100	104
70100877	LD532-1-3(20X80)	532	1	1	90°	D - 0.5	fixed (500mm)	3	140	Ø20x80	isolated	100	139
70101096	LD532-3-3(14X60)	532	3	1	90°	D - 0.5	fixed (3000mm)	3	190	Ø14x60	isolated	100	136
70103755	LD532-3-3(15X70)	532	3	1	90°	D - 0.5	fixed (3000mm)	3	200	Ø15x70	isolated	100	104
70117257	MLD532-3-5(20X80)20DEG	532	3	1	20°	D - 0.5	fixed (3000mm)	5	120	Ø20x80	isolated	100	92
70115536	LD532-5-24(20X80)-F800	532	5	1	90°	D - 0.5	fixed (800mm)	24	55	Ø20x80	isolated	500	107
70104387	LC532-5-3-F(16X65)	532	5	1	90°	C - 0.4	adjustable	3	250	Ø16x65	isolated	100	97
70116854	MLD532-5-5(20X80)30DEG	532	5	1M	30°	D - 0.5	fixed (3000mm)	5	150	Ø20x80	isolated	100	95
70113501	LD532-5-3(20X80)-PL-C3000	532	5	1	90°	D - 0.5	fixed (3000mm)	3	180	Ø20x80	isolated	3000	95
70104714	LD532-5-3(20X80)45-PL	532	5	1	45°	D - 0.5	fixed (3000mm)	3	190	Ø20x80	isolated	100	95
70120134	LD532-5-24(16X80)30-C2000-F500	532	5	1	30°	D - 0.5	fixed	24	30	Ø16x80	isolated	2000	112
70128550	LD532-5-24(16X80)-F3000	532	5	1	90°	D - 0.5	fixed	24	30	Ø16x80	isolated	200	112
70101140	LD532-5-3(20X80)	532	5	1	90°	D - 0.5	fixed (3000mm)	3	245	Ø20x80	isolated	100	92
70112672	LD532-5-3(20X80)-F1500-PL	532	5	1	90°	D - 0.5	fixed (1500mm)	3	300	Ø20x80	isolated	100	135
70101133	LD532-5-3(15X70)	532	5	1	90°	D - 0.5	fixed (3000mm)	3	200	Ø15x70	isolated	100	104
70104417	LD532-5-3(14X60)60-PL-F500	532	5	1	60°	D - 0.5	fixed (500mm)	3	250	Ø14x60	isolated	100	127
70101157	LD532-5-5(20X95)	532	5	1	90°	D - 0.5	fixed (3000mm)	5	250	Ø20x95	isolated	100	124
70109283	LC532-5-3-F(16X65)60DEG	532	5	1	60°	C - 0.4	adjustable	3	150	Ø16x65	isolated	120	97
70101164	MLD532-5-5(20X80)	532	5	1	90°	D - 0.5	fixed (3000mm)	5	250	Ø20x80	isolated	100	92
70109665	LE532-5-3-F-S(22X130)90	532	5	1	90°	E - 0.6	adjustable	3	150	Ø22x130	VDD(+)		140
70125757	LD532-10-5(20X80)110DEG-C148	532	10	1M	110°	D - 0.5	fixed (3000mm)	5	150	Ø20x80	isolated	148	92
70115529	LD532-10-24(20X80)-F800	532	10	1	90°	D - 0.5	fixed (800mm)	24	45	Ø20x80	isolated	500	107
70117110	LD532-10-5(20X80)110DEG-C1000	532	10	1M	110°	D - 0.5	fixed (3000mm)	5	150	Ø20x80	isolated	1000	95
70105841	LD532-10-3(20X80)45-PL	532	10	1M	45°	D - 0.5	fixed (5.0m)	3	180	Ø20x80	isolated	100	100
70113730	LD532-10-24(20X80)-C500	532	10	1	90°	D - 0.5	fixed (1500mm)	24	54	Ø20x80	isolated	500	137

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Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Divergence	Focus	Operating Voltage	Operating Current	Size	Potential of Housing	Cable length	Page
		nm	mW			mrad		V DC	mA	mm		mm	
70113129	LD532-10-3(20X80)-F750	532	10	1	90°	D - 0.5	fixed (750mm)	3	250	Ø20x80	isolated	100	142
70101232	LD532-10-3(20X80)	532	10	1M	90°	D - 0.5	fixed (3000mm)	3	250	Ø20x80	isolated	100	92
70101270	MLD532-10-5(20X80)	532	10	2	90°	D - 0.5	fixed (3000mm)	5	150	Ø20x80	isolated	100	92
70112757	LD532-10-24(20X80)-PL-C1500	532	10	1	90°	D - 0.5	fixed (3000mm)	24	50	Ø20x80	isolated	1500	92
70115888	LD532-10-5(20X80)-C1000	532	10	1M	90°	D - 0.5	fixed (3000mm)	5	300	Ø20x80	isolated	1000	92
70124705	LD532-15-24(20X135)-M12	532	15	2M	90°	D - 0.5	adjustable	24	75	Ø20x135	isolated		92
70114836	LD532-15-24(20X80)45-PL-C3000	532	15	2M	45°	D - 0.5	fixed (3000mm)	24	47	Ø20x80	isolated	3000	92
70105995	LD532-15-3(20X80)45-PL	532	15	2M	45°	D - 0.5	fixed (3000mm)	3	300	Ø20x80	isolated	100	92
70105438	LD532-15-5-F(22X80)	532	15	1M	90°	D - 0.5	adjustable	5	180	Ø22x80	isolated	100	online
70122299	LD532-15-24(20X80)-PL-C1500	532	15	1	90°	D - 0.5	fixed (3000mm)	24	40	Ø20x80	isolated	1500	92
70101294	MLD532-15-5(20X80)	532	15	2M	90°	D - 0.5	fixed (5.0m)	5	350	Ø20x80	isolated	100	100
70101256	LD532-15-3(20X80)	532	15	2	90°	D - 0.5	fixed (3000mm)	3	203	Ø20x80	isolated	100	95
70108347	LE532-15-3(25.4X50)360DEG-C1000	532	15	1	360°	E - 0.6	fixed (2000mm)	3	250	Ø25.4x50	isolated	1000	online
70101362	MLD532-20-5(20X80)	532	20	2M	90°	D - 0.5	fixed (7.0m)	5	450	Ø20x80	isolated	100	online
70123647	LD532-20-24(20X135)-M12	532	20	2M	90°	D - 0.5	adjustable	24	75	Ø20x135	isolated		92
70106008	LD532-20-3(20X80)45-PL	532	20	2	45°	D - 0.5	fixed (3000mm)	3	300	Ø20x80	isolated	100	95
70105971	LD532-20-3(20X80)-PL	532	20	2M	90°	D - 0.5	fixed (5.0m)	3	350	Ø20x80	isolated	100	100
70120707	LD532-20-24(20X80)-PL-C3000	532	20	2M	90°	D - 0.5	fixed (3000mm)	24	30	Ø20x80	isolated	3000	92
70128659	LH532-20-24(20X80)-M12-BASIS	532	20	2M	90°	H -	fixed (2000mm)	24	150	Ø20x80	isolated		145
70101416	MLD532-25-5(20X80)	532	25	2M	90°	D - 0.5	fixed (10.0m)	5	450	Ø20x80	isolated	100	online
70124712	LD532-30-24(20X135)-M12	532	30	2M	90°	D - 0.5	adjustable	24	85	Ø20x135	isolated		92
70104707	LD532-30-3(30X80)	532	30	2M	90°	D - 0.5	fixed (3000mm)	3	350	Ø30x80	isolated	100	online
70110234	LD532-30-230(40X210)	532	30	2M	90°	D - 0.5	fixed (7.0m)	230	10	Ø40x210	isolated	1750	94
70115499	LD532-30-24(40X210)	532	30	2M	90°	D - 0.5	fixed (7.0m)	24	100	Ø40x210	isolated	3000	97
70115482	LD532-50-24(40X210)	532	50	2M	90°	D - 0.5	fixed (7.0m)	24	100	Ø40x210	isolated	3000	97
70112764	LD532-50-230(40X210)	532	50	2M	90°	D - 0.5	fixed (7.0m)	230	10	Ø40x210	isolated	1750	94
70107562	LD532-50-5(85X50X40)	532	50	2M	90°	D - 0.5	fixed (5.0m)	5	500	85x50x40	isolated	100	120
70104622	LC635-0.9-3-F(14X45)	635	0.9	1	90°	C - 0.4	adjustable	3	35	Ø14x45	isolated	100	96
70122527	AMLD635-1-5(14X50)-5DEG	635	0.9	2	5°	D - 0.5	fixed (2000mm)	5	35	Ø14x50	isolated	200	141
70103830	LI635-0.9-3(8X26)	635	0.9	1	90°	I - 1.5	fixed (1000mm)	3	40	Ø8x26	isolated	100	109
70109818	LB635-1-3(16X45)	635	1	1	90°	B - 0.3	fixed (1000mm)	3	27	Ø16x45	isolated	100	119
70124989	LD635-1-24(12X45)-C1000	635	1	1	90°	D - 0.5	fixed (1000mm)	24	6	Ø12x45	isolated	1000	102
70114959	LD635-1-24(14X45)-C200	635	1	1	90°	D - 0.5	fixed (1000mm)	24	7	Ø14x45	isolated	200	107
70116175	LD635-1-24(14X45)-C500	635	1	1	90°	D - 0.5	fixed (1000mm)	24	20	Ø14x45	isolated	500	107
70107159	LC635-1-3(6X30)-F150	635	1	1	90°	C - 0.4	fixed (150mm)	3	32	Ø6x30		100	117
70100464	LD635-1-3(12X32)	635	1	1	90°	D - 0.5	fixed (1000mm)	3	29	Ø12x32	isolated	100	94
70116014	LI635-1-3(10.5X26)-C150-F285	635	1	1	90°	I - 1.5	fixed (285mm)	3	27	Ø10.5x26	isolated	150	130
70114874	LD635-1-24(12X45)-C600	635	1	1	90°	D - 0.5	fixed (1000mm)	24	6	Ø12x45	isolated	600	102
70126068	LD635-1-24(12X45)-C3500	635	1	1	90°	D - 0.5	fixed (1000mm)	24	6	Ø12x45	isolated	3500	102
70129632	L635-1.5-3(14X14X26)	635	1.5	2	120°		fixed (5.0m)	3	50	14x14x26	isolated	127	111
70102765	LG635-1.8-6(13X30)	635	1.8	1	90°	G - 0.8	fixed (1000mm)	6	40	Ø13x30	GND(-)	100	online
70102727	LG635-2-3(12X25)	635	2	1	90°	G - 0.8	fixed (2000mm)	3	35	Ø12x25	VDD(+)	100	online
70116656	LD635-2.2-5(12X32)-F1000-C160	635	2.2	1	90°	D - 0.5	fixed (1000mm)	5	35	Ø12x32	isolated	160	94
70100976	LD635-2.2-3(12X32)	635	2.2	1	90°	D - 0.5	fixed (3000mm)	3	40	Ø12x32	isolated	100	98
70100983	MLD635-2.2-5(14X45)	635	2.2	1	90°	D - 0.5	fixed (2000mm)	5	45	Ø14x45		100	online
70118605	LI635-2.5-3(8X26)45-F100	635	2.5	1	45°	I - 1.5	fixed (100mm)	3	40	Ø8x26	isolated	100	103
70102215	LI635-2.5-3(8X26)	635	2.5	1	90°	I - 1.5	fixed (2000mm)	3	34	Ø8x26	isolated	100	102
70103977	LI635-2.5-3(8X26)45DEG	635	2.5	1	45°	I - 1.5	fixed (2000mm)	3	35	Ø8x26	isolated	100	102
70100587	MLB635-2.5-5(16X58)	635	2.5	1	90°	B - 0.3	fixed (3000mm)	5	50	Ø16x58	isolated	100	113
70109443	LI635-2.5-3(8X26)-F100	635	2.5	1	90°	I - 1.5	fixed (100mm)	3	32	Ø8x26	isolated	100	103
70116809	LH635-2.5-5(12X32)-F400-C160	635	2.5	1	90°	H -	fixed (400mm)	5	30	Ø12x32	isolated	160	101
70122534	LI635-2.5-3(8X26)-F100-C4000	635	2.5	1	90°	I - 1.5	fixed (100mm)	3	32	Ø8x26	isolated	4000	103
70103090	LB635-2.5-3(16X45)	635	2.5	1	90°	B - 0.3	fixed	3	30	Ø16x45	isolated	100	121
70107401	LH635-2.5-3(12X32)60DEG	635	2.5	1	60°	H -	fixed (1000mm)	3	35	Ø12x32	isolated	100	94
70101690	LH635-2.5-3(12X32)	635	2.5	1	90°	H -	fixed (1500mm)	3	30	Ø12x32	isolated	100	142
70101485	LE635-2.5-3(12X32)	635	2.5	1	90°	E - 0.6	fixed (2000mm)	3	30	Ø12x32	isolated	100	99
70115932	LD635-3-24(14X45)45DEG-F100	635	3	1	45°	D - 0.5	fixed	24	21	Ø14x45	isolated	3000	online
70102758	LC635-3-4.5(12X32)	635	3	1	90°	C - 0.4	fixed (3000mm)	4.5	28	Ø12x32	VDD(+)	100	98
70101775	MLH635-4-5(16X45)	635	4	1	90°	H -	fixed (3000mm)	5	35	Ø16x45	isolated	100	132

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Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Divergence mrad	Focus	Operating Voltage V DC	Operating Current mA	Size mm	Potential of Housing	Cable length mm	Page
70101737	LH635-4-3(12X32)	635	4	1	90°	H -	fixed (2000mm)	3	31	Ø12x32	isolated	100	99
70116267	LH635-4-3(21X21X35)110DEG	635	4	1	110°	H -	fixed (2000mm)	3	30	21x21x35	isolated	200	126
70131994	LH635-4-5(12X32)	635	4	1	90°	H -	fixed (3000mm)	5	50	Ø12x32	isolated	100	online
70122695	LE635-5-5(12X58)60DEG-F65	635	5	1M	50°	E - 0.6	fixed (65mm)	5	50	Ø12x58	isolated	100	128
70112849	LI635-5-3(8X26)90DEG-F650	635	5	1	90°	I - 1.5	fixed (650mm)	3	60	Ø8x26		100	online
70109900	LE635-5-24(20X80)45-PL-70109900	635	5	1	45°	E - 0.6	fixed (1200mm)	24	18	Ø20x80	isolated	1500	118
70127102	LI635-5-3(8X26)45-F2500	635	5	1	45°	I - 1.5	fixed (2500mm)	3	40	Ø8x26	isolated	100	online
70104608	LC635-5-3-F(14X45)	635	5	1	90°	C - 0.4	adjustable	3	54	Ø14x45	isolated	100	96
70121971	LC635-5-3-F(16X65)60DEG-C1500	635	5	1	60°	C - 0.4	adjustable	3	50	Ø16x65	isolated	1500	110
70109290	LC635-5-3-F(16X65)60DEG	635	5	1	60°	C - 0.4	adjustable	3	50	Ø16x65	isolated	100	110
70120141	LI635-5-3(8X26)30DEG-F285-C200	635	5	1	30°	I - 1.5	fixed (285mm)	3	53	Ø8x26	isolated	200	108
70107593	LI635-5-3(8X26)42-F1500	635	5	1	42°	I - 1.5	fixed (1500mm)	3	55	Ø8x26	isolated	100	123
70109450	LI635-5-3(8X26)30DEG-F285	635	5	1	30°	I - 1.5	fixed (285mm)	3	45	Ø8x26	isolated	100	108
70107609	LH635-5-3(12X32)39DEG	635	5	1	39°	H -	fixed (3000mm)	3	38	Ø12x32	isolated	100	93
70110548	MLC635-5-5-F(14X45)	635	5	1	90°	C - 0.4	adjustable	5	65	Ø14x45	isolated	100	101
70116717	LI635-5-3(8X26)-F250	635	5	1	90°	I - 1.5	fixed (250mm)	3	52	Ø8x26	isolated	100	99
70110739	LH635-7-5(12X32)30DEG-F100	635	7	2	30°	H -	fixed (100mm)	5	60	Ø12x32	isolated	100	137
70126051	LH635-7-3(12X32)-F1000	635	7	1	100°	H -	fixed (1000mm)	3	50	Ø12x32	isolated	150	94
70102666	LH635-7-3(12X32)	635	7	1	90°	H -	fixed (3000mm)	3	50	Ø12x32	isolated	100	93
70109740	LH635-7-3(12X32)-F1500	635	7	1	90°	H -	fixed (1500mm)	3	35	Ø12x32	isolated	100	117
70126341	LE635-8-3(12X32)	635	8	2	90°	E - 0.6	fixed (6.0m)	3	60	Ø12x32	isolated	1000	online
70120455	LE635-15-5(14X55)45-C500-F400	635	15	2	45°	E - 0.6	fixed (400mm)	5	80	Ø14x55	isolated	500	103
70121667	LE635-15-5(14X55)17DEG-C500-F400	635	15	2	17°	E - 0.6	fixed (400mm)	5	170	Ø14x55	isolated	500	103
70126334	RP-LE635-15-5(14X55)90-F1000	635	15	2	90°	E - 0.6	fixed (1000mm)	5	170	Ø14x55	isolated	500	110
70125948	MLE635-15-5(14X55)40DEG-F1000	635	15	2	40°	E - 0.6	fixed (1000mm)	5	170	Ø14x55	isolated	500	110
70119794	LE635-15-5(14X55)-APERTURE	635	15	2	45°	E - 0.6	fixed (400mm)	5	170	Ø14x55	isolated	100	103
70117011	LH635-15-3(14X45)115DEG-F250	635	15	2	115°	H -	fixed (250mm)	3	50	Ø14x45	isolated	100	online
70117066	LH635-15-3(14X45)	635	15	2	90°	H -	fixed (3000mm)	3	65	Ø14x45	isolated	100	93
70121759	LD635-15-24(20X135)-M12	635	15	2M	90°	D - 0.5	adjustable	24	75	Ø20x135	isolated		92
70124316	LD635-15-5(20X135)-M12	635	15	2M	90°	D - 0.5	adjustable	5	120	Ø20x135	isolated		92
70118582	LE635-16-5(12X32)45DEG-F3000	635	16	2	45°	E - 0.6	fixed (3000mm)	5	90	Ø12x32	isolated	100	120
70123661	LD635-25-24(20X135)-M12	635	25	2M	90°	D - 0.5	adjustable	24	100	Ø20x135	isolated		92
70117073	LE635-25-3(14X45)	635	25	2M	90°	E - 0.6	fixed (5.0m)	3	90	Ø14x45	isolated	100	online
70126204	LD635-25-24(22X70)-C200-CON	635	25	2M	90°	D - 0.5	fixed (5.0m)	24	140	Ø22x70	isolated	200	online
70121766	LD635-30-24(20X135)-M12	635	30	2M	90°	D - 0.5	adjustable	24	100	Ø20x135	isolated		92
70103717	LB650-1-3(16X45)	650	1	1	90°	B - 0.3	fixed (2000mm)	3	25	Ø16x45	isolated	100	111
70114805	LI650-1-3(8X26)-F250-C500	650	1	1	90°	I - 1.5	fixed (250mm)	3	21	Ø8x26	isolated	500	99
70105414	LC650-1-3-F(14X45)	650	1	1	90°	C - 0.4	adjustable	3	25	Ø14x45	isolated	100	96
70107128	LI650-1-3(8X26)	650	1	1	90°	I - 1.5	fixed (1000mm)	3	26	Ø8x26	isolated	100	109
70106541	LC650-1-3(6X30)-F100	650	1	1	90°	C - 0.4	fixed (100mm)	3	25	Ø6x30		100	127
70129649	L650-1-3(14X14X26)	650	1	2	120°		fixed (5.0m)	3	35	14x14x26	isolated	127	111
70100990	LD650-2.2-3(12X32)	650	2.2	1	90°	D - 0.5	fixed (2000mm)	3	30	Ø12x32	isolated	100	149
70107241	LE650-2.5-5(12X32)	650	2.5	1	90°	E - 0.6	fixed (2000mm)	5	23	Ø12x32	isolated	100	99
70101706	LH650-2.5-3(12X32)	650	2.5	1	90°	H -	fixed (1000mm)	3	25	Ø12x32	isolated	100	94
70102239	LI650-2.5-3(8X26)45	650	2.5	1	45°	I - 1.5	fixed (2000mm)	3	30	Ø8x26	isolated	100	102
70101492	LE650-2.5-3(12X32)	650	2.5	1	90°	E - 0.6	fixed (3000mm)	3	25	Ø12x32	isolated	100	98
70100600	LB650-2.5-3(16X45)	650	2.5	1	90°	B - 0.3	fixed (2000mm)	3	25	Ø16x45	isolated	100	111
70110395	LI650-2.5-3(8X26)	650	2.5	1	90°	I - 1.5	fixed (1500mm)	3	35	Ø8x26	isolated	100	online
70102734	LE650-2.6-5(16X32)10DEG	650	2.6	2	10°	E - 0.6	fixed (3000mm)	5	30	Ø16x32	isolated	700	online
70115710	LI650-2.8-5(9X22)-PL-C210	650	2.8	1	90°		fixed (1000mm)	5	24	Ø9x22	isolated	210	122
70117806	LI650-2.8-5(10X22)-C140	650	2.8	1	90°		fixed (1000mm)	5	25	Ø10x22	isolated	140	128
70103335	LG650-3-5(10X21)-F500	650	3	1	90°	G - 0.8	fixed (500mm)	5	25	Ø10x21	VDD(+)	100	148
70103083	LB650-3-3(16X45)	650	3	1	90°	B - 0.3	fixed (2000mm)	3	40	Ø16x45	isolated	100	online
70102802	MLB650-3.5-5(16X60)10DEG	650	3.5	2M	10°	B - 0.3	fixed (3000mm)	5	30	Ø16x60	isolated	700	139
70116885	LI650-4-5(10X30)60DEG-F100	650	4	1	60°	I - 1.5	fixed (100mm)	5	32	Ø10x30	isolated	100	134
70112641	LI650-4-5(8X26)45DEG-F40	650	4	1	45°	I - 1.5	fixed (40mm)	5	34	Ø8x26	isolated	100	123
70110524	LI650-4-3(8X26)30DEG-F100	650	4	1	30°	I - 1.5	fixed (100mm)	3	32	Ø8x26	isolated	100	108
70101799	LH650-4-3(12X32)	650	4	1	90°	H -	fixed (2000mm)	3	22	Ø12x32	isolated	100	99
70110722	LI650-4-5(8X26)20DEG-F100	650	4	2	20°	I - 1.5	fixed (100mm)	5	25	Ø8x26	isolated	100	108

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Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Divergence mrad	Focus	Operating Voltage V DC	Operating Current mA	Size mm	Potential of Housing	Cable length mm	Page
70108644	LD650-5-5(12X32)45-F200	650	5	1	45°	D - 0.5	fixed (200mm)	5	25	Ø12x32	isolated	100	online
70125924	LC650-5-3-F(14X45)-NT	650	5	1	90°	C - 0.4	adjustable	3	35	Ø14x45	isolated	100	144
70125627	LH650-5-3(10X40)5DEG-F400	650	5	3R	5°	H -	fixed (400mm)	3	30	Ø10x40	isolated	100	132
70118056	LE650-5-24(12X50)20DEG	650	5	1	20°	E - 0.6	fixed (3000mm)	24	6	Ø12x50	isolated	100	online
70100075	LD650-5-3(12X32)	650	5	1	90°	D - 0.5	fixed (2000mm)	3	40	Ø12x32	isolated	100	133
70109894	LE650-5-3(20X75)30-C3000	650	5	1	30°	E - 0.6	fixed (3000mm)	3	30	Ø20x75	isolated	3000	online
70115437	LB650-5-3(22X120)10DEG-AP	650	5	2M	10°	B - 0.3	fixed (2400mm)	3	20	Ø22x120	VDD(+)		131
70107258	LD650-5-5(12X34)37-F200	650	5	1	37°	D - 0.5	fixed (200mm)	5	31	Ø12x34	isolated	100	134
70107302	LC650-5-5-F(14X45)-NT	650	5	1	90°	C - 0.4	adjustable	5	30	Ø14x45	isolated	1130	144
70117271	LDI650-5-24(14X50)-F1000	650	5	1	90°	D - 0.5	fixed (1000mm)	24	7	Ø14x50	isolated	2000	135
70104882	LJ650-5-4.5(14X64)	650	5	1	90°	J - 2.0	fixed (1000mm)	4.5	20	Ø14x64	VDD(+)		online
70106190	LE650-5-3(20X75)30-F500-C2000	650	5	1M	30°	E - 0.6	fixed (500mm)	3	30	Ø20x75	isolated	2000	106
70100662	MLB650-5-5(16X63)	650	5	1	90°	B - 0.3	fixed (3000mm)	5	30	Ø16x63	isolated	100	online
70108828	LE650-5-3(20X75)45-F500-C2000	650	5	1	45°	E - 0.6	fixed (500mm)	3	30	Ø20x75	isolated	2000	106
70108408	LE650-5-3-F-S(22X100)45DEG	650	5	1	45°	E - 0.6	adjustable	3	35	Ø22x100			98
70109634	LE650-5-3-F-S(22X100)90	650	5	1	90°	E - 0.6	adjustable	3	30	Ø22x100	VDD(+)		98
70127171	LI650-5-5(8X26)45DEG-F250	650	5	1	45°	I - 1.5	fixed (250mm)	5	34	Ø8x26	isolated	100	99
70116700	LI650-5-3(8X26)-F250	650	5	1	90°	I - 1.5	fixed (250mm)	3	35	Ø8x26	isolated	100	99
70112580	LC650-5-24-F(14X55)	650	5	1	90°	C - 0.4	adjustable	24	8	Ø14x55	isolated	100	96
70122084	LC650-5-24-F(14X55)45	650	5	1	45°	C - 0.4	adjustable	24	15	Ø14x55	isolated	100	96
70110531	MLC650-5-5-F(14X45)	650	5	1	90°	C - 0.4	adjustable	5	30	Ø14x45	VDD(+)	100	101
70104615	LC650-5-3-F(14X45)	650	5	1	90°	C - 0.4	adjustable	3	35	Ø14x45	isolated	100	96
70122787	LD650-5-3(12X32)45-F400	650	5	1	45°	D - 0.5	fixed (400mm)	3	34	Ø12x32	isolated	100	101
70112535	LC650-5-3-F(14X45)45	650	5	1	45°	C - 0.4	adjustable	3	35	Ø14x45	VDD(+)	100	96
70116199	LE650-5-3(12X32)-F400-10DEG	650	5	2M	10°	E - 0.6	fixed (400mm)	3	30	Ø12x32	isolated	100	101
70117127	LE650-5-3(12X32)-F1000-10DEG	650	5	2M	10°	E - 0.6	fixed (1000mm)	3	30	Ø12x32	isolated	100	94
70113600	LD650-5-5(12X32)-PL	650	5	1	90°	D - 0.5	fixed (1000mm)	5	35	Ø12x32	isolated	100	94
70124859	LH650-5-3(15X68)90	650	5	1	90°	H -	fixed (2000mm)	3	20	Ø15x68	VDD(+)		119
70125894	LH650-5-5(14X45)10DEG-F1800	650	5	2M	10°	H -	fixed (1800mm)	5	25	Ø14x45	isolated	750	113
70116182	LE650-5-5(12X32)10DEG	650	5	2M	10°	E - 0.6	fixed (3000mm)	5	31	Ø12x32	isolated	100	93
70105964	LE650-5-3(12X32)20DEG	650	5	1	20°	E - 0.6	fixed (3000mm)	3	30	Ø12x32	isolated	100	93
70107807	LE650-5-3(25.4X100)360DEG	650	5	1	360°	E - 0.6	fixed (3000mm)	3	50	Ø25.4x100	VDD(+)		116
70106039	LE650-5-3(12X32)30-F500-C1500	650	5	1	30°	E - 0.6	fixed (500mm)	3	32	Ø12x32	isolated	1500	115
70121940	LD650-5-3(12X32)30-C30	650	5	1	30°	D - 0.5	fixed (3000mm)	3	30	Ø12x32	isolated	30	93
70115079	LD650-5-3(12X32)30	650	5	1	30°	D - 0.5	fixed (3000mm)	3	33	Ø12x32	isolated	100	93
70110869	LD650-5-3(16X90)-NT	650	5	1	90°	D - 0.5	fixed (2000mm)	3	40	Ø16x90	VDD(+)	1400	115
70105056	LE650-5-3(12X32)10DEG	650	5	2M	10°	E - 0.6	fixed (3000mm)	3	30	Ø12x32	isolated	100	93
70104240	LD650-5-3(12X32)45	650	5	1	45°	D - 0.5	fixed (3000mm)	3	34	Ø12x32	isolated	100	93
70110890	LH650-7-3(12X32)	650	7	1	90°	H -	fixed (2000mm)	3	40	Ø12x32	isolated	100	126
70101898	LH650-8-3(12X32)	650	8	1	90°	H -	fixed (3000mm)	3	35	Ø12x32	VDD(+)	100	93
70113181	LB650-15-230(40X210)-F3000	650	15	2	90°	B - 0.3	fixed (3000mm)	230	10	Ø40x210	isolated	1750	138
70131147	LB650-15-230(40X210)-F5000	650	15	2	90°	B - 0.3	fixed (5.0m)	230	10	Ø40x210	isolated	1750	148
70120158	LH650-15-5(12X28)10DEG	650	15	3R	10°	H -	fixed (3000mm)	5	70	Ø12x28	isolated	100	140
70116052	LH650-16-3(14X45)-F150	650	16	2	90°	H -	fixed (150mm)	3	60	Ø14x45	isolated	100	online
70116816	LH650-16-24(19X80)-F800-C7000	650	16	2	90°	H -	fixed (800mm)	24	20	Ø19x80	isolated	7000	online
70113884	LH650-16-24(20X80)-C500	650	16	2	90°	H -	fixed (1500mm)	24	12	Ø20x80	isolated	500	online
70109832	LH650-16-24(20X80)-F1300-C1500	650	16	2	90°	H -	fixed (1300mm)	24	70	Ø20x80	isolated	1500	online
70125573	LH650-16-24(20X80)-C500-CON	650	16	2	90°	H -	fixed (1500mm)	24	12	Ø20x80	isolated	500	146
70131161	LH650-16-5(14X45)110DEG-NT	650	16	2	110°	H -	fixed (1800mm)	5	57	Ø14x45	isolated	750	147
70116991	LH650-16(16X90)-NT-MOUNT	650	16	2	90°	H -	fixed (3000mm)	3	70	Ø16x90	VDD(+)	1400	online
70106336	LC650-16-3-F(14X55)	650	16	2	90°	C - 0.4	adjustable	3	75	Ø14x55	isolated	100	96
70106848	LC650-16-3-F(14X55)30	650	16	2M	30°	C - 0.4	adjustable	3	64	Ø14x55	isolated	100	96
70105667	LH650-16-3(14X45)-C1500	650	16	2	90°	H -	fixed (3000mm)	3	65	Ø14x45	isolated	1500	93
70123029	LH650-16-3(14X45)-C2500	650	16	2	90°	H -	fixed (3000mm)	3	65	Ø14x45	isolated	2500	93
70101928	LH650-16-3(14X45)	650	16	2	90°	H -	fixed (3000mm)	3	55	Ø14x45	isolated	100	93
70106077	LH650-16-3(14X45)45-PL-C1500	650	16	2	45°	H -	fixed (3000mm)	3	70	Ø14x45	isolated	1500	93
70125887	LH650-16-24(20X80)-F800-CON	650	16	2	90°	H -	fixed (800mm)	24	20	Ø20x80	isolated	500	online
70109764	LH650-16-3(14X45)-F1500	650	16	2	90°	H -	fixed (1500mm)	3	60	Ø14x45	isolated	100	146
70116847	MLH650-16-5(10X30)-F100	650	16	2	90°	H -	fixed (100mm)	5	60	Ø10x30	isolated	100	133

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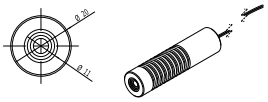
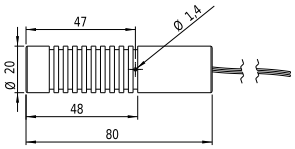
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Divergence mrad	Focus	Operating Voltage V DC	Operating Current mA	Size mm	Potential of Housing	Cable length mm	Page
70115116	LCI650-16-24-F(14X62)-C1500	650	16	2	90°	C - 0.4	adjustable	24	13	Ø14x62	isolated	1500	114
70101942	MLH650-16-5(16X45)	650	16	2	90°	H -	fixed (3000mm)	5	65	Ø16x45	isolated	100	106
70115512	LH650-16-24(20X80)-F800	650	16	2	90°	H -	fixed (800mm)	24	20	Ø20x80	isolated	500	105
70127096	RP-LH650-16-3(12X38)60-PL	650	16	2	60°	H -	fixed (3000mm)	3	60	Ø12x38	isolated	100	112
70109559	LH650-16-3(12X38)-PL	650	16	2	90°	H -	fixed (3000mm)	3	60	Ø12x38	isolated	100	112
70117219	MLH650-16-5(10X30)-60DEG-F150	650	16	2	60°	H -	fixed (150mm)	5	60	Ø10x30	isolated	100	129
70115369	LH650-16-5(14X45)-70115369	650	16	2	110°	H -	fixed (1800mm)	5	57	Ø14x45	isolated	750	113
70109115	LH650-16-24(20X80)-PL-C1500	650	16	2	90°	H -	fixed (3000mm)	24	12	Ø20x80	isolated	1500	100
70109849	LH650-16-24(20X80)-PL-C3000	650	16	2	90°	H -	fixed (3000mm)	24	11	Ø20x80	isolated	3000	100
70124736	LC650-16-24-F(14X62)30	650	16	2M	30°	C - 0.4	adjustable	24	15	Ø14x62	isolated	100	143
70110166	LE650-16-3-F-S(22X100)90	650	16	2	90°	E - 0.6	adjustable	3	70	Ø22x100	VDD(+)		98
70128642	LH650-20-24(20X80)-M12-BASIS	650	20	2M	90°	H -	fixed (3000mm)	24	20	Ø20x80	isolated		141
70101577	LE650-22-3(14X45)	650	22	2M	90°	E - 0.6	fixed (3000mm)	3	80	Ø14x45	isolated	100	93
70101966	LH650-24-5(12X37)	650	24	2M	90°	H -	fixed (3000mm)	5	70	Ø12x37	VDD(+)	100	118
70110074	LH650-24-5(14X45)-PL	650	24	2M	90°	H -	fixed (3000mm)	5	70	Ø14x45	isolated	100	93
70106060	LH650-24-3(14X45)45-PL-C1500	650	24	2M	45°	H -	fixed (3000mm)	3	60	Ø14x45	isolated	1500	93
70103076	LH650-24-3(14X45)	650	24	2M	90°	H -	fixed (3000mm)	3	70	Ø14x45	isolated	100	93
70117196	LH650-24-3(14X45)-F275	650	24	2M	90°	H -	fixed (275mm)	3	70	Ø14x45	isolated	100	online
70110340	MLH650-24-5(16X58)-F400	650	24	2M	90°	H -	fixed (400mm)	5	110	Ø16x58	isolated	100	125
70101997	MLH650-24-5(16X58)	650	24	2M	90°	H -	fixed (3000mm)	5	120	Ø16x58	isolated	100	113
70110449	MLH650-24-5(16X45)-PL	650	24	2M	90°	H -	fixed (3000mm)	5	71	Ø16x45	isolated	100	106
70121452	LH658-25-3(14X55)10DEG-F500	658	25	3R	10°	H -	fixed (500mm)	3	140	Ø14x55	isolated	100	online
70123357	LB658-30-230(40X210)	658	30	2M	90°	B - 0.3	fixed (7.0m)	230	10	Ø40x210	isolated	1750	94
70122220	MLB658-50-24(19X88)-PL	658	50	2M	90°	B - 0.3	adjustable	24	70	Ø19x88	isolated	500	online
70115475	LB658-50-24(40X210)	658	50	2M	90°	B - 0.3	fixed (7.0m)	24	100	Ø40x210	isolated	3000	97
70118537	LB658-50-230(40X210)45	658	50	3R	45°	B - 0.3	fixed (7.0m)	230	10	Ø40x210	isolated	1750	94
70126037	MLB658-50-24(19X95)-PL-CON	658	50	2M	90°	B - 0.3	adjustable	24	70	Ø19x95	isolated	500	online
70110227	LB658-50-230(40X210)	658	50	2M	90°	B - 0.3	fixed (7.0m)	230	10	Ø40x210	isolated	1750	94
70120127	LE658-60-3(16X28)120DEG-F500	658	60	3R	120°	E - 0.6	fixed (500mm)	3	180	Ø16x28	isolated	100	147
70118490	LH658-60-3(14X45)90DEG-F500	658	60	3R	90°	H -	fixed (500mm)	3	100	Ø14x45	isolated	100	114
70101010	LD670-2.2-3(12X32)	670	2.2	1	90°	D - 0.5	fixed (3000mm)	3	45	Ø12x32	isolated	100	98
70101713	LH670-2.5-3(12X34)	670	2.5	1	90°	H -	fixed (1000mm)	3	40	Ø12x34	isolated	100	129
70101508	LE670-2.5-3(12X32)	670	2.5	1	90°	E - 0.6	fixed (1000mm)	3	40	Ø12x32	isolated	100	131
70101843	LH670-4-3(12X32)	670	4	1	90°	H -	fixed (1000mm)	3	40	Ø12x32	isolated	100	94
70110555	MLC670-5-5-F(14X45)	670	5	1	90°	C - 0.4	adjustable	5	35	Ø14x45	isolated	100	101
70110180	LC808-5-3-F(14X55)	808	5	1	90°	C - 0.4	adjustable	3	80	Ø14x55	isolated	100	95
70125801	LH808-200-3(20X60)60	808	200	3B	60°	H -	fixed (1000mm)	3	380	Ø20x60	isolated	100	125
70102154	LH808-350-3(20X60)	808	350	3R	90°	H -	fixed (3000mm)	3	450	Ø20x60	isolated	100	online
70114324	LH850-5-5(10X40)10DEG	850	5	1M	10°	H -	fixed (320mm)	5	60	Ø10x40	isolated	100	105
70123777	LE850-5-3-F-S(22X100)45DEG	850	5	1	45°	E - 0.6	adjustable	3	35	Ø22x100			98
70114386	LH850-5-5(10X40)5DEG	850	5	3R	5°	H -	fixed (320mm)	5	60	Ø10x40	isolated	100	105
70115246	LII850-10-3(8X30)-F200	850	10	3R	90°	I - 1.5	fixed (200mm)	3	70	Ø8x30	isolated	100	130
70124590	LB850-15-5(16X45)10DEG-F300-POTI	850	15	3R	10°	B - 0.3	fixed (300mm)	5	120	Ø16x45	isolated	100	online
70125030	LC850-16-3-F(14X55)30	850	16	3R	30°	C - 0.4	adjustable	3	30	Ø14x55	isolated	100	95
70115345	LC850-16-3-F(14X45)30DEG	850	16	3R	30°	C - 0.4	adjustable	3	75	Ø14x45	isolated	100	96
70102017	LH850-30-3(16X45)-PL	850	30	1M	90°	H -	fixed (3000mm)	3	55	Ø16x45		100	136
70106794	MLH980-120-5(22X60)	980	120	3R	90°	H -	fixed (3000mm)	5	400	Ø22x60	isolated	100	122

Line Laser, Ø20x80mm

Size	Ø20x80mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (3000mm)
Output Aperture	5mm



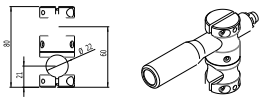


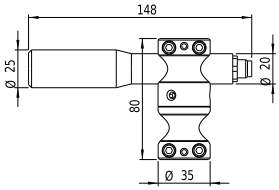
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70117257	MLD532-3-5(20X80)20DEG	532	3	1	20°	<2mm@3m	5	120		isolated	D - 0.5	100	10	5000
70101140	LD532-5-3(20X80)	532	5	1	90°	<1.5mm@3m	3	245		isolated	D - 0.5	100	—	5000
70101164	MLD532-5-5(20X80)	532	5	1	90°	<1.5mm@3m	5	250		isolated	D - 0.5	100	10	5000
70112757	LD532-10-24(20X80)-PL-C1500	532	10	1	90°	<1.5mm@3m	24	50	✓	isolated	D - 0.5	1500	—	10000
70101232	LD532-10-3(20X80)	532	10	1M	90°	<1.5mm@3m	3	250		isolated	D - 0.5	100	—	5000
70115888	LD532-10-5(20X80)-C1000	532	10	1M	90°	<1.5mm@3m	5	300		isolated	D - 0.5	1000	—	5000
70125757	LD532-10-5(20X80)110DEG-C148	532	10	1M	110°	<1.5mm@3m	5	150		isolated	D - 0.5	148	—	5000
70101270	MLD532-10-5(20X80)	532	10	2	90°	<1.5mm@3m	5	150		isolated	D - 0.5	100	10	5000
70122299	LD532-15-24(20X80)-PL-C1500	532	15	1	90°	<1.5mm@3m	24	40	✓	isolated	D - 0.5	1500	—	10000
70105995	LD532-15-3(20X80)45-PL	532	15	2M	45°	<1.5mm@3m	3	300	✓	isolated	D - 0.5	100	—	5000
70114836	LD532-15-24(20X80)45-PL-C3000	532	15	2M	45°	<1.5mm@3m	24	47	✓	isolated	D - 0.5	3000	—	5000
70120707	LD532-20-24(20X80)-PL-C3000	532	20	2M	90°	<1.5mm@3m	24	30	✓	isolated	D - 0.5	3000	—	10000

Line Laser, Ø20x135mm

- Stainless steel body for industrial applications
- Protection Class (IP64)
- Adjustable line thickness
- M12 industrial connector
- Protection lens

Size	Ø20x135mm
Beam Shape	Line
Material	Stainless Steel
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	16mm
Connector	CON-M12





Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70121742	LD450-15-24(20X135)-M12	450	15	2M	90°	adjustable	24	75	✓	isolated	D - 0.5		—	10000
70121735	LD450-30-24(20X135)-M12	450	30	2M	90°	adjustable	24	100	✓	isolated	D - 0.5		—	10000
70121711	LD520-15-24(20X135)-M12	520	15	2M	90°	adjustable	24	75	✓	isolated	D - 0.5		—	10000
70121728	LD520-30-24(20X135)-M12	520	30	2M	90°	adjustable	24	100	✓	isolated	D - 0.5		—	10000
70124705	LD532-15-24(20X135)-M12	532	15	2M	90°	adjustable	24	75	✓	isolated	D - 0.5		—	10000
70123647	LD532-20-24(20X135)-M12	532	20	2M	90°	adjustable	24	75	✓	isolated	D - 0.5		—	10000
70124712	LD532-30-24(20X135)-M12	532	30	2M	90°	adjustable	24	85	✓	isolated	D - 0.5		—	10000
70124316	LD635-15-5(20X135)-M12	635	15	2M	90°	adjustable	5	120	✓	isolated	D - 0.5		—	10000
70121759	LD635-15-24(20X135)-M12	635	15	2M	90°	adjustable	24	75	✓	isolated	D - 0.5		—	10000
70123661	LD635-25-24(20X135)-M12	635	25	2M	90°	adjustable	24	100	✓	isolated	D - 0.5		—	10000
70121766	LD635-30-24(20X135)-M12	635	30	2M	90°	adjustable	24	100	✓	isolated	D - 0.5		—	10000

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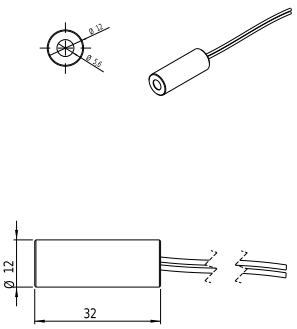
Line Laser, Ø12x32mm

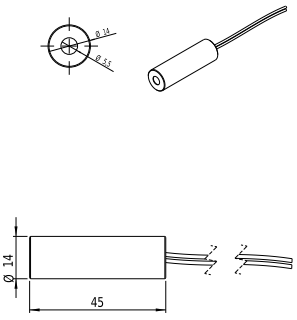
Size	Ø12x32mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (3000mm)
Output Aperture	5.5mm



Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70107609	LH635-5-3(12X32)39DEG	635	5	1	39°	<1.5mm@3m	3	38		isolated	H -	100	—	5000
70102666	LH635-7-3(12X32)	635	7	1	90°	<1.5mm@3m	3	50		isolated	H -	100	—	10000
70105964	LE650-5-3(12X32)20DEG	650	5	1	20°	<1.5mm@3m	3	30		isolated	E - 0.6	100	—	5000
70121940	LD650-5-3(12X32)30-C30	650	5	1	30°	<1.5mm@3m	3	30		isolated	D - 0.5	30	—	5000
70115079	LD650-5-3(12X32)30	650	5	1	30°	<1.5mm@3m	3	33		isolated	D - 0.5	100	—	5000
70104240	LD650-5-3(12X32)45	650	5	1	45°	<1.5mm@3m	3	34		isolated	D - 0.5	100	—	5000
70105056	LE650-5-3(12X32)10DEG	650	5	2M	10°	<1.5mm@3m	3	30	✓	isolated	E - 0.6	100	—	5000
70116182	LE650-5-5(12X32)10DEG	650	5	2M	10°	<1.5mm@3m	5	31		isolated	E - 0.6	100	—	5000
70101898	LH650-8-3(12X32)	650	8	1	90°	<1.5mm@3m	3	35		VDD(+)	H -	100	—	5000

Line Laser, Ø14x45mm

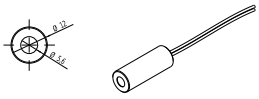
Size	Ø14x45mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (3000mm)
Output Aperture	5.5mm

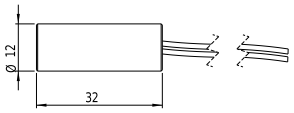


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70117066	LH635-15-3(14X45)	635	15	2	90°	<2mm@3m	3	65		isolated	H -	100	—	10000
70106077	LH650-16-3(14X45)45-PL-C1500	650	16	2	45°	<1.5mm@3m	3	70		isolated	H -	1500	—	5000
70101928	LH650-16-3(14X45)	650	16	2	90°	<1.5mm@3m	3	55		isolated	H -	100	—	5000
70105667	LH650-16-3(14X45)-C1500	650	16	2	90°	<1.5mm@3m	3	65		isolated	H -	1500	—	5000
70123029	LH650-16-3(14X45)-C2500	650	16	2	90°	<1.5mm@3m	3	65		isolated	H -	2500	—	5000
70101577	LE650-22-3(14X45)	650	22	2M	90°	<1.5mm@3m	3	80		isolated	E - 0.6	100	—	5000
70106060	LH650-24-3(14X45)45-PL-C1500	650	24	2M	45°	<1.5mm@3m	3	60	✓	isolated	H -	1500	—	5000
70103076	LH650-24-3(14X45)	650	24	2M	90°	<1.5mm@3m	3	70		isolated	H -	100	—	10000
70110074	LH650-24-5(14X45)-PL	650	24	2M	90°	<1.5mm@3m	5	70		isolated	H -	100	—	5000

Line Laser, Ø12x32mm

Size	Ø12x32mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (1000mm)
Output Aperture	5.5mm



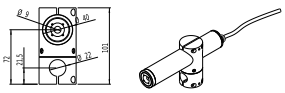


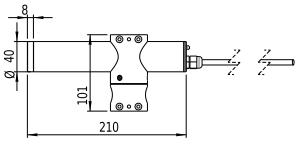
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70100464	LD635-1-3(12X32)	635	1	1	90°	<1mm@1m	3	29		isolated	D - 0.5	100	—	5000
70116656	LD635-2.2-5(12X32)-F1000-C160	635	2.2	1	90°	<1mm@1m	5	35		isolated	D - 0.5	160	—	5000
70107401	LH635-2.5-3(12X32)60DEG	635	2.5	1	60°	<1mm@1m	3	35		isolated	H -	100	—	5000
70126051	LH635-7-3(12X32)-F1000	635	7	1	100°	<1mm@1m	3	50		isolated	H -	150	—	10000
70101706	LH650-2.5-3(12X32)	650	2.5	1	90°	<1mm@1m	3	25		isolated	H -	100	—	5000
70113600	LD650-5-5(12X32)-PL	650	5	1	90°	<0.7mm@1m	5	35	✓	isolated	D - 0.5	100	—	5000
70117127	LE650-5-3(12X32)-F1000-10DEG	650	5	2M	10°	<1mm@1m	3	30	—	isolated	E - 0.6	100	—	5000
70101843	LH670-4-3(12X32)	670	4	1	90°	<1mm@1m	3	40		isolated	H -	100	—	5000

Line Laser, Ø40x210mm

- Operating Voltage 230V AC
- Glas lenses anti reflex coated
- Uniform line thickness

Size	Ø40x210mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (7.0m)
Output Aperture	8mm
Connector	AC CEE 7/7





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70118520	LE520-30-230(40X210)	520	30	2M	90°	<3mm@7m	230	10		isolated	E - 0.6	1750	—	5000
70121797	LE520-45-230(40X210)	520	45	2M	90°	<3mm@7m	230	10		isolated	E - 0.6	1750	—	5000
70110234	LD532-30-230(40X210)	532	30	2M	90°	<3mm@7m	230	10		isolated	D - 0.5	1750	—	10000
70112764	LD532-50-230(40X210)	532	50	2M	90°	<3mm@7m	230	10		isolated	D - 0.5	1750	—	10000
70123357	LB658-30-230(40X210)	658	30	2M	90°	<3mm@7m	230	10		isolated	B - 0.3	1750	—	10000
70110227	LB658-50-230(40X210)	658	50	2M	90°	<3mm@7m	230	10		isolated	B - 0.3	1750	—	10000
70118537	LB658-50-230(40X210)45	658	50	3R	45°	<3mm@7m	230	10		isolated	B - 0.3	1750	—	10000

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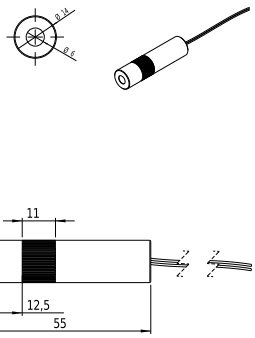
Line Laser, Ø14x55mm

- Adjustable focus

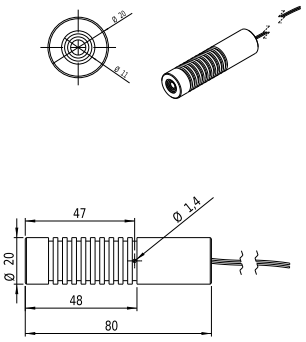
Size	Ø14x55mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	4mm



Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70125016	LC405-16-3-F(14X55)30	405	16	2M	30°	adjustable	3	150		isolated	C - 0.4	100	—	5000
70114881	LC405-60-5-F(14X55)	405	60	3R	90°	adjustable	5	150		isolated	C - 0.4	100	—	5000
70114973	LC405-70-5-F(14X55)	405	70	3R	90°	adjustable	5	170		isolated	C - 0.4	100	—	5000
70125023	LC520-16-3-F(14X55)30-QCW	520	16	2M	30°	adjustable	3	40		isolated	C - 0.4	100	—	5000
70110180	LC808-5-3-F(14X55)	808	5	1	90°	adjustable	3	80		isolated	C - 0.4	100	—	5000
70125030	LC850-16-3-F(14X55)30	850	16	3R	30°	adjustable	3	30		isolated	C - 0.4	100	—	5000

Line Laser, Ø20x80mm

Size	Ø20x80mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (3000mm)
Output Aperture	5mm

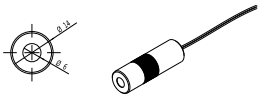


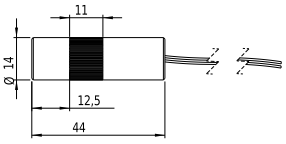
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70104714	LD532-5-3(20X80)45-PL	532	5	1	45°	<1.5mm@3m	3	190	✓	isolated	D - 0.5	100	—	5000
70113501	LD532-5-3(20X80)-PL-C3000	532	5	1	90°	<1.5mm@3m	3	180	✓	isolated	D - 0.5	3000	—	5000
70116854	MLD532-5-5(20X80)30DEG	532	5	1M	30°	<1.5mm@3m	5	150		isolated	D - 0.5	100	10	5000
70117110	LD532-10-5(20X80)110DEG-C1000	532	10	1M	110°	<1.5mm@3m	5	150		isolated	D - 0.5	1000	—	5000
70101256	LD532-15-3(20X80)	532	15	2	90°	<1.5mm@3m	3	203		isolated	D - 0.5	100	—	10000
70106008	LD532-20-3(20X80)45-PL	532	20	2	45°	<1.5mm@3m	3	300	✓	isolated	D - 0.5	100	—	5000

Line Laser, Ø14x45mm

- Adjustable focus

Size	Ø14x45mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	6mm



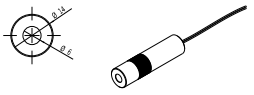


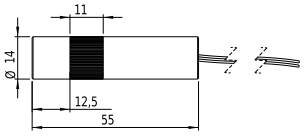
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70104622	LC635-0.9-3-F(14X45)	635	0.9	1	90°	adjustable	3	35		isolated	C - 0.4	100	—	5000
70104608	LC635-5-3-F(14X45)	635	5	1	90°	adjustable	3	54		isolated	C - 0.4	100	—	5000
70105414	LC650-1-3-F(14X45)	650	1	1	90°	adjustable	3	25		isolated	C - 0.4	100	—	5000
70112535	LC650-5-3-F(14X45)45	650	5	1	45°	adjustable	3	35		VDD(+)	C - 0.4	100	—	5000
70104615	LC650-5-3-F(14X45)	650	5	1	90°	adjustable	3	35		isolated	C - 0.4	100	—	5000
70115345	LC850-16-3-F(14X45)30DEG	850	16	3R	30°	adjustable	3	75		isolated	C - 0.4	100	—	5000

Line Laser, Ø14x55mm

- Adjustable focus
- Adjustable focus
- Image processing

Size	Ø14x55mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	3.5mm





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70121575	LC450-30-24-F(14X55)	450	30	2M	90°	adjustable	24	37		isolated	C - 0.4	3000	—	5000
70122084	LC650-5-24-F(14X55)45	650	5	1	45°	adjustable	24	15		isolated	C - 0.4	100	—	5000
70112580	LC650-5-24-F(14X55)	650	5	1	90°	adjustable	24	8		isolated	C - 0.4	100	—	5000
70106336	LC650-16-3-F(14X55)	650	16	2	90°	adjustable	3	75		isolated	C - 0.4	100	—	5000
70106848	LC650-16-3-F(14X55)30	650	16	2M	30°	adjustable	3	64		isolated	C - 0.4	100	—	5000

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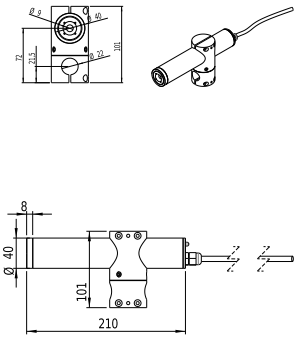
Line Laser, Ø40x210mm

- Operating Voltage 24V DC
- Glas lenses anti reflex coated
- Laser Class 2M

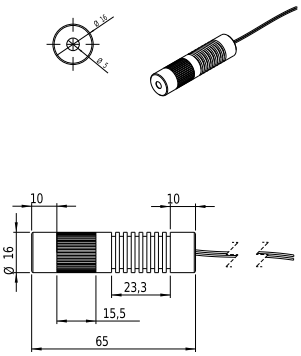
Size	Ø40x210mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (7.0m)
Output Aperture	8mm



Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70120622	LE520-30-24(40X210)	520	30	2M	90°	<3mm@7m	24	100		isolated	E - 0.6	1750	—	5000
70121773	LE520-45-24(40X210)	520	45	2M	90°	<3mm@7m	24	100		isolated	E - 0.6	1750	—	5000
70115499	LD532-30-24(40X210)	532	30	2M	90°	<3mm@7m	24	100		isolated	D - 0.5	3000	—	10000
70115482	LD532-50-24(40X210)	532	50	2M	90°	<3mm@7m	24	100		isolated	D - 0.5	3000	—	10000
70115475	LB658-50-24(40X210)	658	50	2M	90°	<3mm@7m	24	100		isolated	B - 0.3	3000	—	10000

Line Laser, Ø16x65mm

Size	Ø16x65mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	5mm

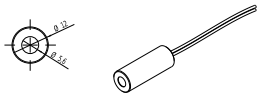


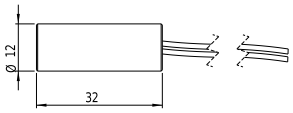
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70121032	LC520-15-24-F(16X65)-QCW	520	15	2M	90°	adjustable	24	50		isolated	C - 0.4	100	—	6000
70118483	LC520-20-5-F(16X65)-QCW	520	20	2M	90°	adjustable	5	150		isolated	C - 0.4	100	—	6000
70104370	LC532-0.4-3-F(16X65)	532	0.4	1	90°	adjustable	3	200		isolated	C - 0.4	100	—	5000
70109283	LC532-5-3-F(16X65)60DEG	532	5	1	60°	adjustable	3	150		isolated	C - 0.4	120	—	5000
70104387	LC532-5-3-F(16X65)	532	5	1	90°	adjustable	3	250		isolated	C - 0.4	100	—	5000

Line Laser, Ø12x32mm

- Laser Class 1
- Glas lenses anti reflex coated

Size	Ø12x32mm
Beam Shape	Line
Material	Brass
Optics	glass lens AR coated
Focus	fixed (3000mm)
Output Aperture	5.5mm

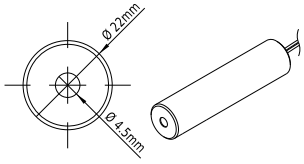


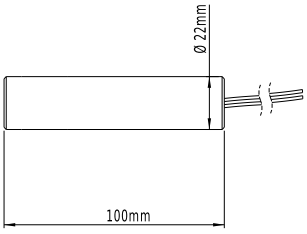


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70100976	LD635-2.2-3(12X32)	635	2.2	1	90°	<1.5mm@3m	3	40		isolated	D - 0.5	100	—	5000
70102758	LC635-3-4.5(12X32)	635	3	1	90°	<1.5mm@3m	4.5	28		VDD(+)	C - 0.4	100	—	5000
70101492	LE650-2.5-3(12X32)	650	2.5	1	90°	<1.5mm@3m	3	25		isolated	E - 0.6	100	—	5000
70101010	LD670-2.2-3(12X32)	670	2.2	1	90°	<2mm@3m	3	45		isolated	D - 0.5	100	—	5000

Line Laser, Ø22x100mm

Size	Ø22x100mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	4.5mm
Battery	CR123A





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70108408	LE650-5-3-F-S(22X100)45DEG	650	5	1	45°	adjustable	3	35			E - 0.6		—	5000
70109634	LE650-5-3-F-S(22X100)90	650	5	1	90°	adjustable	3	30		VDD(+)	E - 0.6		—	10000
70110166	LE650-16-3-F-S(22X100)90	650	16	2	90°	adjustable	3	70		VDD(+)	E - 0.6		—	10000
70123777	LE850-5-3-F-S(22X100)45DEG	850	5	1	45°	adjustable	3	35			E - 0.6		—	5000

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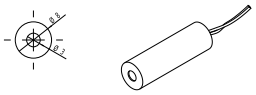
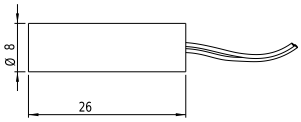
Line Laser, Ø8x26mm

- Laser Class 1
- Uniform line thickness

Size	Ø8x26mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (250mm)
Output Aperture	3mm



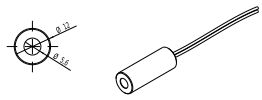


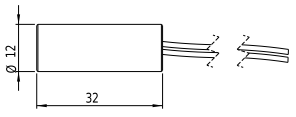
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70116717	LI635-5-3(8X26)-F250	635	5	1	90°	<0.3mm@0.25m	3	52		isolated	I - 1.5	100	—	10000
70114805	LI650-1-3(8X26)-F250-C500	650	1	1	90°	<0.3mm@0.25m	3	21		isolated	I - 1.5	500	—	5000
70127171	LI650-5-5(8X26)45DEG-F250	650	5	1	45°	<0.5mm@0.25m	5	34		isolated	I - 1.5	100	—	10000
70116700	LI650-5-3(8X26)-F250	650	5	1	90°	<0.3mm@0.25m	3	35		isolated	I - 1.5	100	—	10000

Line Laser, Ø12x32mm

- Laser Class 1

Size	Ø12x32mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (2000mm)
Output Aperture	5.5mm



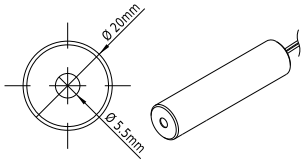


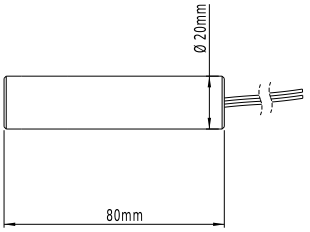
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70101485	LE635-2.5-3(12X32)	635	2.5	1	90°	<1.5mm@2m	3	30		isolated	E - 0.6	100	—	5000
70101737	LH635-4-3(12X32)	635	4	1	90°	<1.5mm@2m	3	31		isolated	H -	100	—	5000
70107241	LE650-2.5-5(12X32)	650	2.5	1	90°	<1.5mm@2m	5	23		isolated	E - 0.6	100	—	5000
70101799	LH650-4-3(12X32)	650	4	1	90°	<1.5mm@2m	3	22		isolated	H -	100	—	5000

Line Laser, Ø20x80mm

- Operating Voltage 24V DC
- Uniform line thickness

Size	Ø20x80mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (3000mm)
Output Aperture	5.5mm

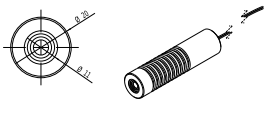


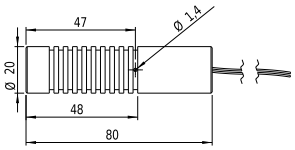


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70128826	LH520-10-24(20X80)-PL-C3000	520	10	1M	90°	<1.5mm@3m	24	55	✓	isolated	H -	3000	—	10000
70120660	LH520-10-24(20X80)-PL-C3000-WP	520	10	1M	90°	<1.5mm@3m	24	55	✓	isolated	H -	3000	—	10000
70109849	LH650-16-24(20X80)-PL-C3000	650	16	2	90°	<1.5mm@3m	24	11	✓	isolated	H -	3000	—	10000
70109115	LH650-16-24(20X80)-PL-C1500	650	16	2	90°	<2mm@3m	24	12		isolated	H -	1500	—	10000

Line Laser, Ø20x80mm

Size	Ø20x80mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (5.0m)
Output Aperture	5mm





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70105841	LD532-10-3(20X80)45-PL	532	10	1M	45°	<1.5mm@5m	3	180	✓	isolated	D - 0.5	100	—	5000
70101294	MLD532-15-5(20X80)	532	15	2M	90°	<1.5mm@5m	5	350		isolated	D - 0.5	100	10	5000
70105971	LD532-20-3(20X80)-PL	532	20	2M	90°	<1.5mm@5m	3	350	✓	isolated	D - 0.5	100	—	5000

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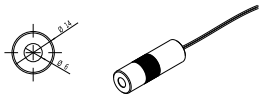
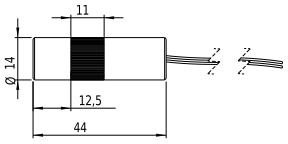
Modulated Line Laser, Ø14x45mm

- Laser Class 1
- Image processing
- Adjustable focus
- Modulated
- Uniform line thickness

Size	Ø14x45mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	4mm

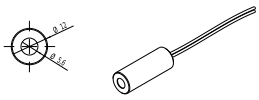


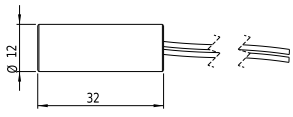


Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70110548	MLC635-5-5-F(14X45)	635	5	1	90°	adjustable	5	65		isolated	C - 0.4	100	200	5000
70110531	MLC650-5-5-F(14X45)	650	5	1	90°	adjustable	5	30		VDD(+)	C - 0.4	100	200	5000
70110555	MLC670-5-5-F(14X45)	670	5	1	90°	adjustable	5	35		isolated	C - 0.4	100	200	5000

Line Laser, Ø12x32mm

Size	Ø12x32mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (400mm)
Output Aperture	5.5mm



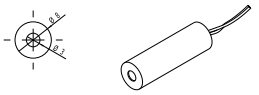


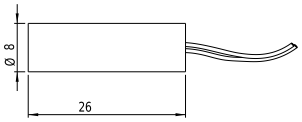
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70116809	LH635-2.5-5(12X32)-F400-C160	635	2.5	1	90°	<0.3mm@0.4m	5	30		isolated	H -	160	—	5000
70122787	LD650-5-3(12X32)45-F400	650	5	1	45°	<1mm@400mm	3	34		isolated	D - 0.5	100	—	5000
70116199	LE650-5-3(12X32)-F400-10DEG	650	5	2M	10°	<0.5mm@0.4m	3	30	—	isolated	E - 0.6	100	—	5000

Line Laser, Ø8x26mm

- Operating Voltage 3V DC
- Laser Class 1
- Compact size

Size	Ø8x26mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (2000mm)
Output Aperture	3mm



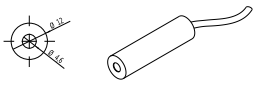


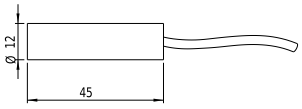
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70103977	LI635-2.5-3(8X26)45DEG	635	2.5	1	45°	<1.5mm@2m	3	35		isolated	I - 1.5	100	—	5000
70102215	LI635-2.5-3(8X26)	635	2.5	1	90°	<1.5mm@2m	3	34		isolated	I - 1.5	100	—	5000
70102239	LI650-2.5-3(8X26)45	650	2.5	1	45°	<1.5mm@2m	3	30		isolated	I - 1.5	100	—	5000

Line Laser, Ø12x45mm

- Operating Voltage 24V DC
- Laser Class 1
- Fan angle 90°
- Compact size
- Uniform line thickness

Size	Ø12x45mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (1000mm)
Output Aperture	4.5mm





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70114874	LD635-1-24(12X45)-C600	635	1	1	90°	<1mm@1m	24	6		isolated	D - 0.5	600	—	5000
70124989	LD635-1-24(12X45)-C1000	635	1	1	90°	<1mm@1m	24	6		isolated	D - 0.5	1000	—	5000
70126068	LD635-1-24(12X45)-C3500	635	1	1	90°	<1mm@1m	24	6		isolated	D - 0.5	3500	—	5000

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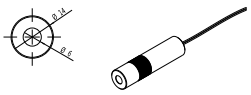
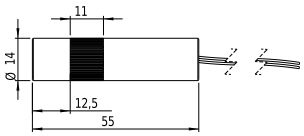
Line Laser, Ø14x55mm

- Laser Class 2
- Low power consumption
- Image processing

Size	Ø14x55mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (400mm)
Output Aperture	5.5mm



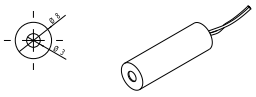


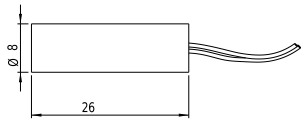
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70121667	LE635-15-5(14X55)17DEG-C500-F400	635	15	2	17°	<0.5mm@0.4m	5	170		isolated	E - 0.6	500	—	5000
70120455	LE635-15-5(14X55)45-C500-F400	635	15	2	45°	<0.5mm@0.4m	5	80		isolated	E - 0.6	500	—	5000
70119794	LE635-15-5(14X55)-APERTURE	635	15	2	45°	<0.5mm@0.4m	5	170		isolated	E - 0.6	100	—	5000

Line Laser, Ø8x26mm

- Low power consumption

Size	Ø8x26mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (100mm)
Output Aperture	5.5mm



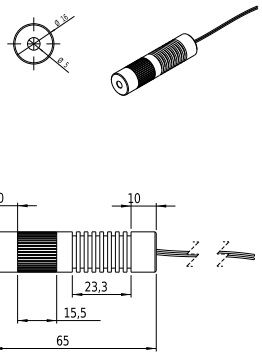


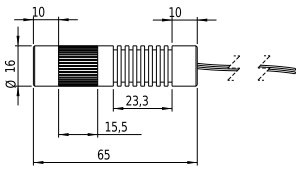
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70118605	LI635-2.5-3(8X26)45-F100	635	2.5	1	45°	<0.3mm@100mm	3	40		isolated	I - 1.5	100	—	5000
70109443	LI635-2.5-3(8X26)-F100	635	2.5	1	90°	<0.3mm@100mm	3	32		isolated	I - 1.5	100	—	5000
70122534	LI635-2.5-3(8X26)-F100-C4000	635	2.5	1	90°	<0.3mm@100mm	3	32		isolated	I - 1.5	4000	—	5000

Line Laser, Ø16x65mm

- Operating Voltage 5V DC
- Compact size
- Laser Class 1
- High Power
- Fixed focus

Size	Ø16x65mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	5mm
PCB	—



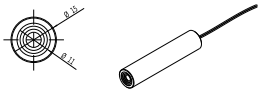


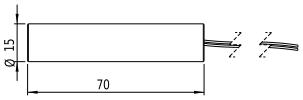
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70119749	LC520-0.1-5-F(16X65)-QCW	520	0.1	1	90°	adjustable	5	43		isolated	C - 0.4	100	—	6000
70118476	LC520-5-5-F(16X65)-QCW	520	5	1	90°	adjustable	5	58		isolated	C - 0.4	100	—	6000
70132496	LC520-5-5-F(16X65)-QCW-C2000	520	5	1	90°	adjustable	5	58		isolated	C - 0.4	2000	—	6000

Line Laser, Ø15x70mm

- Operating Voltage 3V DC
- Laser Class 1
- Fan angle 90°

Size	Ø15x70mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (3000mm)
Output Aperture	5mm





Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70103748	LD532-1-3(15X70)	532	1	1	90°	<1.5mm@3m	3	150		VDD(+)	D - 0.5	100	—	5000
70103755	LD532-3-3(15X70)	532	3	1	90°	<1.5mm@3m	3	200		isolated	D - 0.5	100	—	5000
70101133	LD532-5-3(15X70)	532	5	1	90°	<1.5mm@3m	3	200		isolated	D - 0.5	100	—	5000

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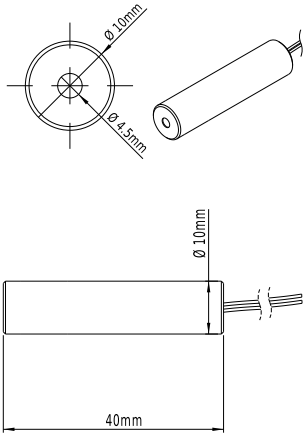
Line Laser, Ø10x40mm

- Operating Voltage 5V DC
- Image processing
- Uniform line thickness
- Compact size

Size	Ø10x40mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (320mm)
Output Aperture	4.5mm

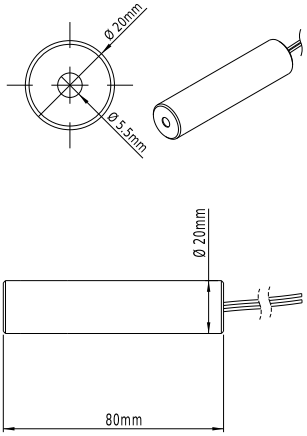


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70114324	LH850-5-5(10X40)10DEG	850	5	1M	10°	<0.5mm@0.32m	5	60		isolated	H -	100	—	5000
70114386	LH850-5-5(10X40)5DEG	850	5	3R	5°	<0.5mm@0.32m	5	60		isolated	H -	100	—	5000

Line Laser, Ø20x80mm

- Operating Voltage 24V DC
- Isolated housing
- Laser Class 1
- Small laser head
- Protection lens

Size	Ø20x80mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (800mm)
Output Aperture	5.5mm

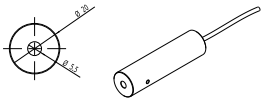


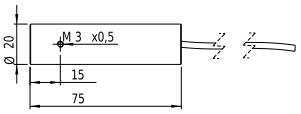
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70115543	LD405-10-24(20X80)-F800	405	10	1	90°	<1mm@0.8m	24	20	—	isolated	H -	500	—	10000
70115512	LH650-16-24(20X80)-F800	650	16	2	90°	<1mm@0.8m	24	20	—	isolated	H -	500	—	10000

Line Laser, Ø20x75mm

- Operating Voltage 3V DC
- Uniform line thickness

Size	Ø20x75mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (500mm)
Output Aperture	5.5mm



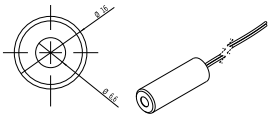


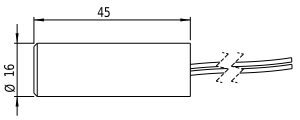
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70108828	LE650-5-3(20X75)45-F500-C2000	650	5	1	45°	<0.3mm@0.5m	3	30		isolated	E - 0.6	2000	—	5000
70106190	LE650-5-3(20X75)30-F500-C2000	650	5	1M	30°	<0.5mm@0.5m	3	30		isolated	E - 0.6	2000	—	5000

Modulated Line Laser, Ø16x45mm

- Operating Voltage 5V DC
- Modulated

Size	Ø16x45mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (3000mm)
Output Aperture	5.5mm





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70101942	MLH650-16-5(16X45)	650	16	2	90°	<1.5mm@3m	5	65		isolated	H -	100	100	5000
70110449	MLH650-24-5(16X45)-PL	650	24	2M	90°	<1.5mm@3m	5	71	✓	isolated	H -	100	200	5000

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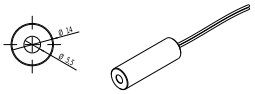
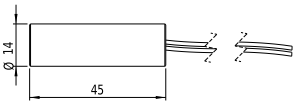
Line Laser, Ø14x45mm

- Operating Voltage 24V DC
- Laser Class 1
- Fan angle 90°
- Compact size
- Uniform line thickness

Size	Ø14x45mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (1000mm)
Output Aperture	5.5mm



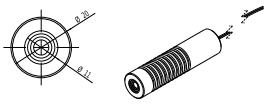


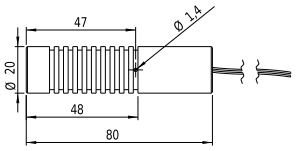
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70114959	LD635-1-24(14X45)-C200	635	1	1	90°	<1mm@1m	24	7		isolated	D - 0.5	200	—	5000
70116175	LD635-1-24(14X45)-C500	635	1	1	90°	<1mm@1m	24	20		isolated	D - 0.5	500	—	5000

Line Laser, Ø20x80mm

- Operating Voltage24V DC
- Isolated housing
- Laser Class 1
- Compact size
- Protection lens

Size	Ø20x80mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (800mm)
Output Aperture	5mm



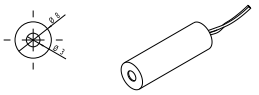


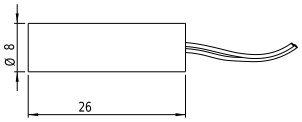
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70115536	LD532-5-24(20X80)-F800	532	5	1	90°	<1mm@0.8m	24	55	—	isolated	D - 0.5	500	—	10000
70115529	LD532-10-24(20X80)-F800	532	10	1	90°	<1mm@0.8m	24	45	—	isolated	D - 0.5	500	—	10000

Line Laser, Ø8x26mm

- Operating Voltage 3V DC
- Fan angle 30°
- Laser Class 1
- Uniform line thickness
- Fixed focus

Size	Ø8x26mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (285mm)
Output Aperture	3mm



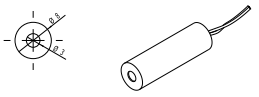


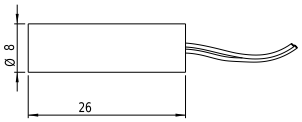
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70109450	LI635-5-3(8X26)30DEG-F285	635	5	1	30°	<0.3mm@0.285m	3	45		isolated	I - 1.5	100	—	5000
70120141	LI635-5-3(8X26)30DEG-F285-C200	635	5	1	30°	<0.3mm@0.285m	3	53		isolated	I - 1.5	200	—	5000

Line Laser, Ø8x26mm

- Fixed focus
- Low power consumption
- Uniform line thickness
- Image processing

Size	Ø8x26mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (100mm)
Output Aperture	3mm





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70110524	LI650-4-3(8X26)30DEG-F100	650	4	1	30°	<0.3mm@0.1m	3	32		isolated	I - 1.5	100	—	10000
70110722	LI650-4-5(8X26)20DEG-F100	650	4	2	20°	<0.3mm@0.1m	5	25		isolated	I - 1.5	100	—	10000

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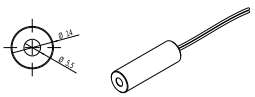
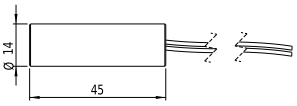
Line Laser, Ø14x45mm

- Blue Lasermodule
- Operating Voltage 3V DC
- Glas lenses anti reflex coated

Size	Ø14x45mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (150mm)
Output Aperture	5mm



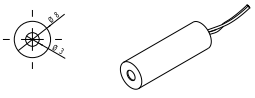


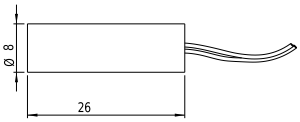
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70124620	LE405-1-3(14X45)90DEG-F150	405	1	1	90°	<0.8mm@150mm	3	60		isolated	E - 0.6	100	—	5000
70124637	LE520-1-3(14X45)90DEG-F150-QCW	520	1	1M	90°	<0.8mm@150mm	3	200		isolated	E - 0.6	100	—	5000

Line Laser, Ø8x26mm

- Laser Class 1
- Operating Voltage 3V DC
- Fan angle 90°
- Fixed focus

Size	Ø8x26mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (1000mm)
Output Aperture	3mm



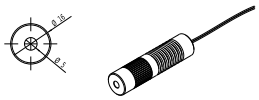


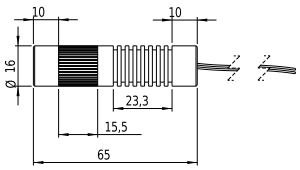
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70103830	LI635-0.9-3(8X26)	635	0.9	1	90°	<1mm@1m	3	40		isolated	I - 1.5	100	—	5000
70107128	LI650-1-3(8X26)	650	1	1	90°	<1mm@1m	3	26		isolated	I - 1.5	100	—	5000

Line Laser, Ø16x65mm

- Adjustable focus
- Low power consumption
- Uniform illumination
- Laser Class 1
- Operating Voltage 3V DC

Size	Ø16x65mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	6mm



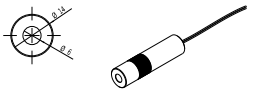


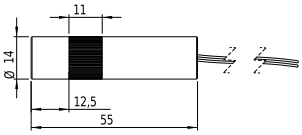
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70109290	LC635-5-3-F(16X65)60DEG	635	5	1	60°	adjustable	3	50		isolated	C - 0.4	100	—	5000
70121971	LC635-5-3-F(16X65)60DEG-C1500	635	5	1	60°	adjustable	3	50		isolated	C - 0.4	1500	—	5000

Line Laser, Ø14x55mm

- Laser Class 2
- Low power consumption
- Uniform line thickness
- Image processing

Size	Ø14x55mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (1000mm)
Output Aperture	5.5mm





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70125948	MLE635-15-5(14X55)40DEG-F1000	635	15	2	40°	<0.5mm@1m	5	170		isolated	E - 0.6	500	100	5000
70126334	RP-LE635-15-5(14X55)90-F1000	635	15	2	90°	<0.5mm@1m	5	170		isolated	E - 0.6	500	—	5000

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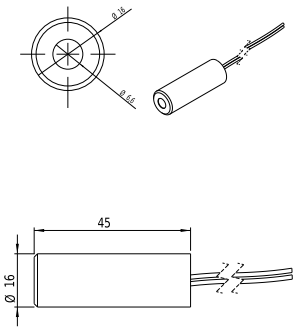
Line Laser, Ø16x45mm

- Fan angle 90°
- Laser Class 1
- Operating Voltage 3V DC
- Fixed focus

Size	Ø16x45mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (2000mm)
Output Aperture	6.8mm



Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70103717	LB650-1-3(16X45)	650	1	1	90°	<2mm@2m	3	25		isolated	B - 0.3	100	—	5000
70100600	LB650-2.5-3(16X45)	650	2.5	1	90°	<1.5mm@2m	3	25		isolated	B - 0.3	100	—	5000

Line Laser, 14x14x26mm

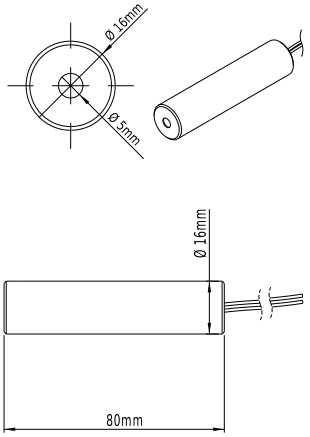
Size	14x14x26mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (5.0m)

Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70129632	L635-1.5-3(14X14X26)	635	1.5	2	120°	2mm@5m	3	50		isolated		127	—	5000
70129649	L650-1-3(14X14X26)	650	1	2	120°	2mm@5m	3	35		isolated		127	—	10000

Line Laser, Ø16x80mm

- Operating Voltage 24V DC
- Laser Class 1
- Compact size
- Glas lenses anti reflex coated
- Fixed focus

Size	Ø16x80mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed
Output Aperture	5mm

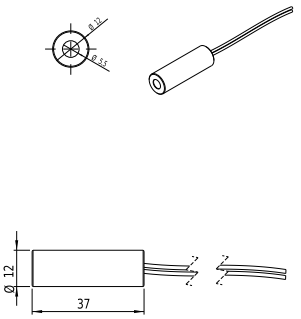


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70120134	LD532-5-24(16X80)30-C2000-F500	532	5	1	30°	<0.7mm@0.5	24	30		isolated	D - 0.5	2000	—	5000
70128550	LD532-5-24(16X80)-F3000	532	5	1	90°	<1.5mm@3	24	30		isolated	D - 0.5	200	—	5000

Line Laser, Ø12x38mm

- High Power
- Protection lens
- Laser Class 2
- Operating Voltage 3V DC
- Fixed focus

Size	Ø12x38mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (3000mm)
Output Aperture	5.5mm



Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70127096	RP-LH650-16-3(12X38)60-PL	650	16	2	60°	<2mm@3m	3	60	✓	isolated	H -	100	—	5000
70109559	LH650-16-3(12X38)-PL	650	16	2	90°	<2mm@3m	3	60	✓	isolated	H -	100	—	5000

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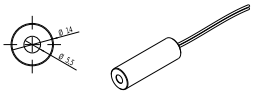
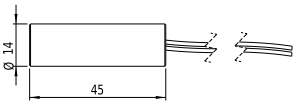
Line Laser, Ø14x45mm

- High Power
- Compact size
- Operating Voltage 5V DC
- Fixed focus

Size	Ø14x45mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (1800mm)
Output Aperture	5.5mm



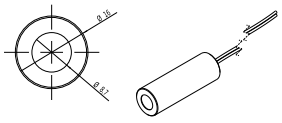


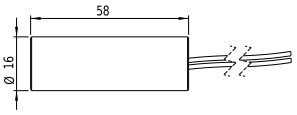
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70125894	LH650-5-5(14X45)10DEG-F1800	650	5	2M	10°	<1.5mm@1.8m	5	25		isolated	H -	750	—	5000
70115369	LH650-16-5(14X45)-70115369	650	16	2	110°	<1.5mm@1.8m	5	57		isolated	H -	750	—	5000

Modulated Line Laser, Ø16x58mm

- Modulated

Size	Ø16x58mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (3000mm)
Output Aperture	7mm



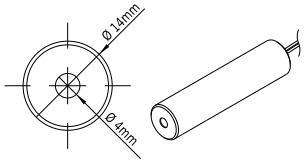


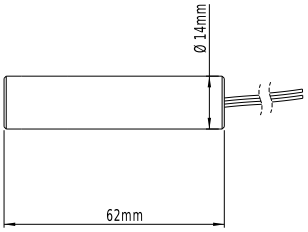
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70100587	MLB635-2.5-5(16X58)	635	2.5	1	90°	<1.5mm@3m	5	50		isolated	B - 0.3	100	50	5000
70101997	MLH650-24-5(16X58)	650	24	2M	90°	<1mm@3m	5	120		isolated	H -	100	200	5000

Line Laser, Ø14x62mm

- Image processing
- Adjustable focus
- Laser Class 2
- Compact size
- Uniform line thickness

Size	Ø14x62mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	4mm



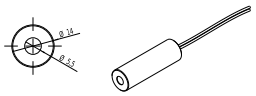


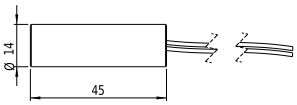
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70115116	LCI650-16-24-F(14X62)-C1500	650	16	2	90°	adjustable	24	13		isolated	C - 0.4	1500	—	5000

Line Laser, Ø14x45mm

- Laser Class 3R
- Low power consumption
- Uniform line thickness
- Image processing

Size	Ø14x45mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (500mm)
Output Aperture	5.5mm





Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70118490	LH658-60-3(14X45)90DEG-F500	658	60	3R	90°	<0.5mm@0.5m	3	100		isolated	H -	100	—	10000

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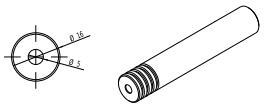
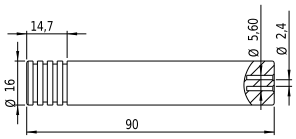
Line Laser, Ø16x90mm

- Small fan angle
- Laser Class 1
- Compact size
- With 230V power supply

Size	Ø16x90mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (2000mm)
Output Aperture	6mm
Power Supply included	✓
Connector	2.5 mm DC plug (GND pole



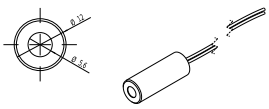


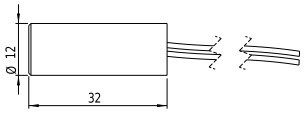
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70110869	LD650-5-3(16X90)-NT	650	5	1	90°	<1.5mm@2m	3	40	✓	VDD(+)	D - 0.5	1400	—	5000

Line Laser, Ø12x32mm

- Laser Class 1
- Operating Voltage 3V DC
- Fixed focus
- Uniform line thickness
- Fan angle 30°

Size	Ø12x32mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (500mm)
Output Aperture	5.5mm

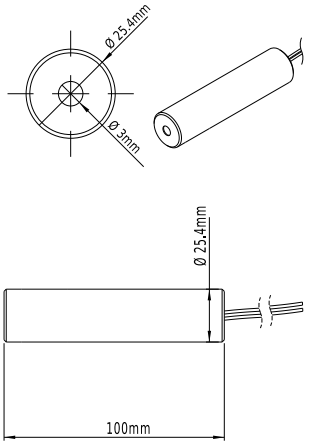




Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70106039	LE650-5-3(12X32)30-F500-C1500	650	5	1	30°	<0.5mm@0.5m	3	32		isolated	E - 0.6	1500	—	5000

Line Laser, Ø25.4x100mm

Size	Ø25.4x100mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (3000mm)
Output Aperture	3mm
Battery	CR123A

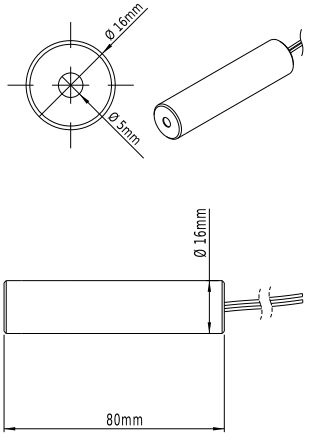


Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70107807	LE650-5-3(25.4X100)360DEG	650	5	1	360°	<3mm@3m	3	50		VDD(+)	E - 0.6		—	5000

Line Laser, Ø16x80mm

- Operating Voltage 24V DC
- Laser Class 1
- Compact size
- Glas lenses anti reflex coated
- Fixed focus

Size	Ø16x80mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (5.0m)
Output Aperture	5mm



Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70121209	LD520-10-24(16X80)-C1000-QCW	520	10	1	90°	2mm@5m	24	50		isolated	D - 0.5	1000	—	10000

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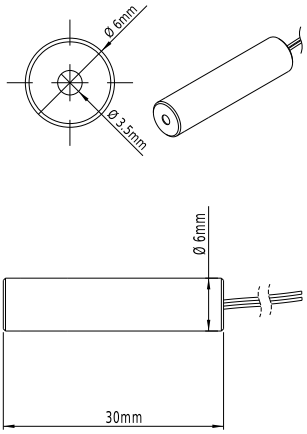
Line Laser, Ø6x30mm

- Operating Voltage 3V DC
- Laser Class 1
- Uniform illumination
- Compact size
- Fan angle 90°

Size	Ø6x30mm
Beam Shape	Line
Material	Brass
Optics	glass lens AR coated
Focus	fixed (150mm)
Output Aperture	3.5mm

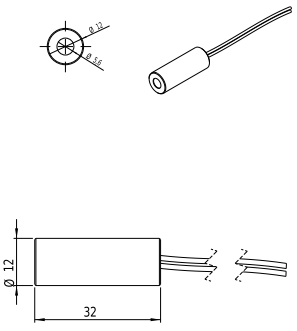


Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70107159	LC635-1-3(6X30)-F150	635	1	1	90°	<0.1mm@0.15m	3	32			C - 0.4	100	—	5000

Line Laser, Ø12x32mm

- Operating Voltage 3V DC
- Laser Class 1
- Compact size
- Isolated housing
- Fixed focus

Size	Ø12x32mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (1500mm)
Output Aperture	5.5mm

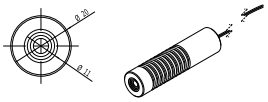


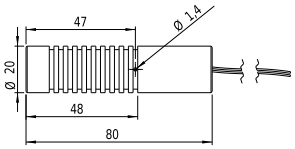
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70109740	LH635-7-3(12X32)-F1500	635	7	1	90°	<1.5mm@1.5m	3	35		isolated	H -	100	—	5000

Line Laser, Ø20x80mm

- Operating Voltage 24V DC
- Uniform line thickness
- Isolated housing
- Laser Class 1
- Protection lens

Size	Ø20x80mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (1200mm)
Output Aperture	5.5mm



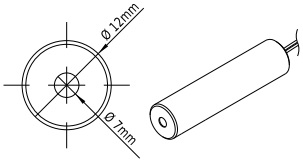


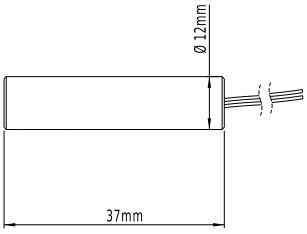
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70109900	LE635-5-24(20X80)45-PL-70109900	635	5	1	45°	<0.7mm@1.2m	24	18	✓	isolated	E - 0.6	1500	—	10000

Line Laser, Ø12x37mm

- Compact size
- Low power consumption
- Laser Class 2M
- Fixed focus
- Glass lenses AR coated

Size	Ø12x37mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (3000mm)
Output Aperture	7mm





Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70101966	LH650-24-5(12X37)	650	24	2M	90°	<1.5mm@3m	5	70		VDD(+)	H -	100	—	5000

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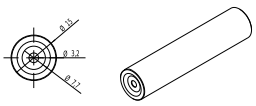
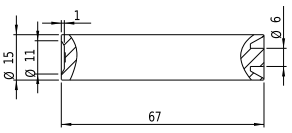
Line Laser, Ø15x68mm

- Laser Class 1
- With battery
- With Pushbutton (no restfunction)

Size	Ø15x68mm
Beam Shape	Line
Material	aluminium
Optics	acryl lense
Focus	fixed (2000mm)
Output Aperture	6mm
Battery	2 x LR44



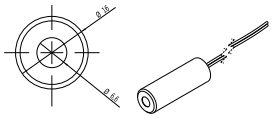


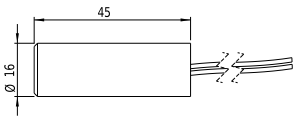
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70124859	LH650-5-3(15X68)90	650	5	1	90°	<2mm@2m	3	20	✓	VDD(+)	H -		—	3000

Line Laser, Ø16x45mm

- Operating Voltage 3V DC
- Laser Class 1
- Fan angle 90°
- Uniform line thickness
- Compact size

Size	Ø16x45mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (1000mm)
Output Aperture	6.8mm



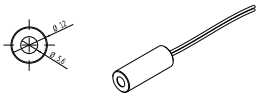


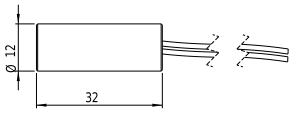
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70109818	LB635-1-3(16X45)	635	1	1	90°	<1mm@1m	3	27		isolated	B - 0.3	100	—	10000

Line Laser, Ø12x32mm

- Uniform illumination
- Uniform line thickness
- High power
- Laser Class 2

Size	Ø12x32mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (3000mm)



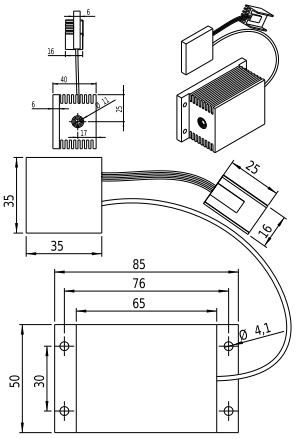


Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70118582	LE635-16-5(12X32)45DEG-F3000	635	16	2	45°	<1.5mm@3m	5	90		isolated	E - 0.6	100	—	5000

Line Laser, 85x50x40mm

- Operating Voltage 5V DC
- Laser Class 2M
- Uniform line thickness
- Fixed focus
- Small laser head

Size	85x50x40mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (5.0m)
Output Aperture	5mm
PCB	✓
PCB size	35x35x2mm



Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70107562	LD532-50-5(85X50X40)	532	50	2M	90°	<3mm@5m	5	500		isolated	D - 0.5	100	—	5000

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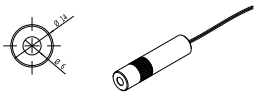
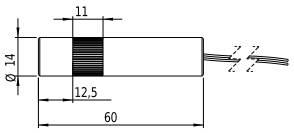
Line Laser, Ø14x60mm

- Operating Voltage 5V DC
- Laser Class 1
- Adjustable focus
- Low power consumption

Size	Ø14x60mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	4mm



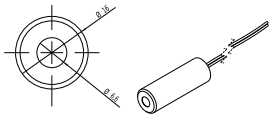


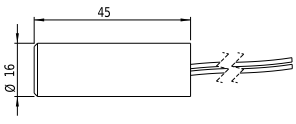
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70112733	LE405-5-5-F(14X60)	405	5	1	90°	adjustable	5	54		isolated	E - 0.6	100	—	5000

Line Laser, Ø16x45mm

- Fan angle 90°
- Laser Class 1
- Operating Voltage 3V DC
- Fixed focus
- Glas lenses anti reflex coated

Size	Ø16x45mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed
Output Aperture	6.8mm



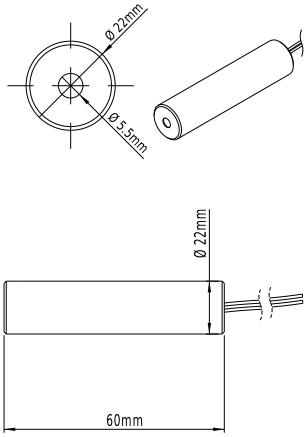


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70103090	LB635-2.5-3(16X45)	635	2.5	1	90°	<1.5mm@2	3	30		isolated	B - 0.3	100	—	5000

Line Laser, Ø22x60mm

- Operating Voltage 5V DC
- Laser Class 3R
- Uniform line thickness
- Fan angle 90°
- Image processing

Size	Ø22x60mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (3000mm)
Output Aperture	5.5mm

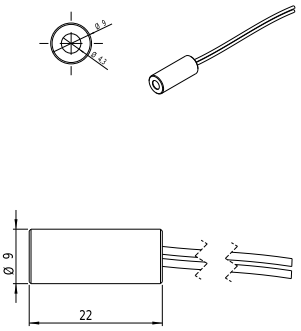


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70106794	MLH980-120-5(22X60)	980	120	3R	90°	<1.5mm@3m	5	400		isolated	H -	100	—	5000

Line Laser, Ø9x22mm

- Operating Voltage 5V DC
- Laser Class 1
- Fan angle 90°
- Compact size

Size	Ø9x22mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (1000mm)
Output Aperture	4.25mm



Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70115710	LI650-2.8-5(9X22)-PL-C210	650	2.8	1	90°	<1mm@1m	5	24	✓	isolated		210	—	5000

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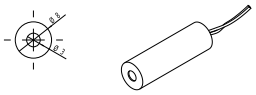
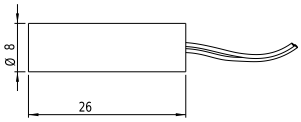
Line Laser, Ø8x26mm

- Fan angle 42°
- Laser Class 1
- Operating Voltage 3V DC
- Uniform line thickness
- Image processing

Size	Ø8x26mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (1500mm)
Output Aperture	3mm



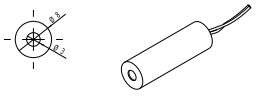


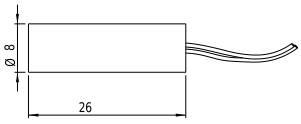
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70107593	LI635-5-3(8X26)42-F1500	635	5	1	42°	<1.5mm@1.5m	3	55		isolated	I - 1.5	100	—	10000

Line Laser, Ø8x26mm

- Laser Class 1
- Low power consumption
- For medical devices
- Uniform line thickness
- Image processing

Size	Ø8x26mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (40mm)
Output Aperture	3mm



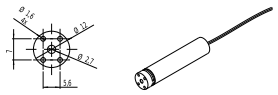


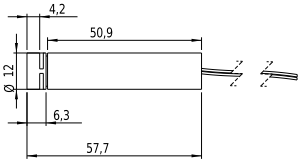
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70112641	LI650-4-5(8X26)45DEG-F40	650	4	1	45°	<0.3mm@0.04m	5	34		isolated	I - 1.5	100	—	10000

Line Laser, Ø12x60mm

- Operating Voltage 3V DC
- Laser Class 1
- Uniform illumination
- Fixed focus
- Fan angle 90°

Size	Ø12x60mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (1300mm)
Output Aperture	3mm



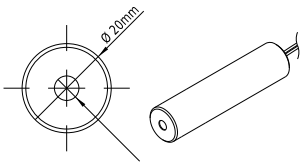


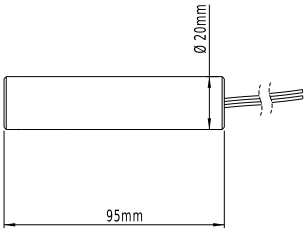
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70122497	LD520-5-3(12X60)-QCW-F1300	520	5	1	90°	<1mm@1.3m	3	100		isolated	D - 0.5	100	—	6000

Line Laser, Ø20x95mm

- Uniform illumination
- Uniform line thickness
- Laser Class 1

Size	Ø20x95mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (3000mm)





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70101157	LD532-5-5(20X95)	532	5	1	90°	<1.5mm@3m	5	250		isolated	D - 0.5	100	—	5000

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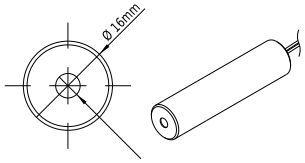
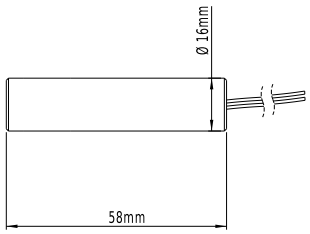
Modulated Line Laser, Ø16x58mm

- Protection lens
- Laser Class 2M
- Compact size
- Modulated
- Image processing

Size	Ø16x58mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (400mm)



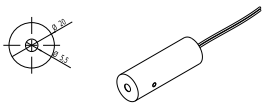


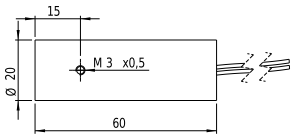
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70110340	MLH650-24-5(16X58)-F400	650	24	2M	90°	<0.5mm@0.4m	5	110		isolated	H -	100	200	5000

Line Laser, Ø20x60mm

- Image processing
- Compact size
- Uniform line thickness
- High power
- Operating Voltage 3V DC

Size	Ø20x60mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (1000mm)
Output Aperture	5.5mm



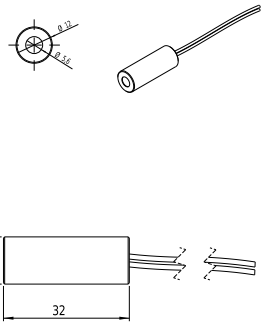


Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70125801	LH808-200-3(20X60)60	808	200	3B	60°	<1.5mm@1m	3	380		isolated	H -	100	—	5000

Line Laser, Ø12x32mm

- Image processing
- Uniform line thickness
- Laser Class 1
- Compact size

Size	Ø12x32mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (2000mm)



Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70110890	LH650-7-3(12X32)	650	7	1	90°	<1.5mm@2m	3	40		isolated	H -	100	—	10000

Line Laser, 21x21x35mm

- Fan angle 110°
- Laser Class 1
- Operating Voltage 3V DC
- Fixed focus
- Image processing

Size	21x21x35mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (2000mm)
Output Aperture	5mm

Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70116267	LH635-4-3(21X21X35)110DEG	635	4	1	110°	<1mm@2m	3	30		isolated	H -	200	—	5000

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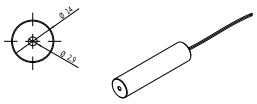
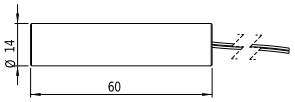
Line Laser, Ø14x60mm

- Operating Voltage 3V DC
- Fan angle 60°
- Laser Class 1
- Fixed focus
- Protection lens

Size	Ø14x60mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (500mm)
Output Aperture	5mm



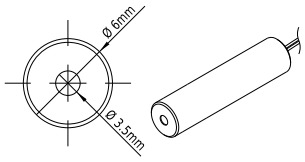


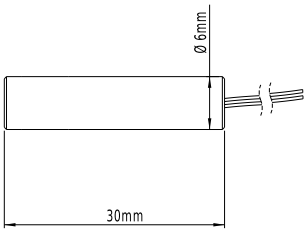
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70104417	LD532-5-3(14X60)60-PL-F500	532	5	1	60°	<0.5mm@0.5m	3	250	✓	isolated	D - 0.5	100	—	5000

Line Laser, Ø6x30mm

- Operating Voltage 3V DC
- Laser Class 1
- Image processing
- For medical devices
- Uniform line thickness

Size	Ø6x30mm
Beam Shape	Line
Material	Brass
Optics	glass lens AR coated
Focus	fixed (100mm)
Output Aperture	3.5mm



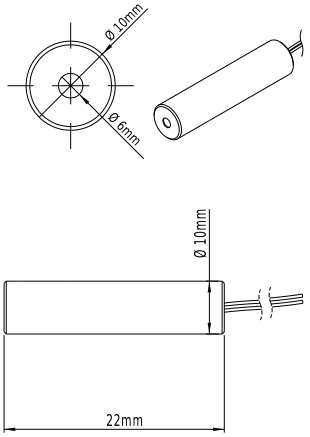


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70106541	LC650-1-3(6X30)-F100	650	1	1	90°	<0.1mm@0.1m	3	25			C - 0.4	100	—	10000

Line Laser, Ø10x22mm

- Operating Voltage 5V DC
- Laser Class 1
- Fan angle 90°
- Compact size

Size	Ø10x22mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (1000mm)
Output Aperture	6mm

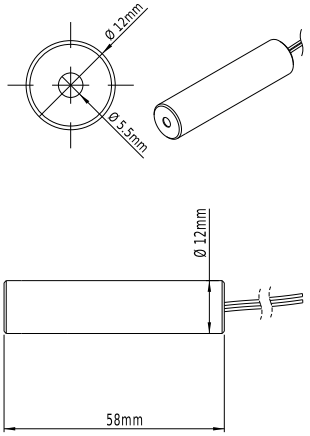


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70117806	LI650-2.8-5(10X22)-C140	650	2.8	1	90°	<1mm@1m	5	25	—	isolated		140	—	5000

Line Laser, Ø12x58mm

- Compact size
- Laser Class 1M
- Operating Voltage 5V DC
- Fixed focus

Size	Ø12x58mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (65mm)
Output Aperture	5.5mm



Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70122695	LE635-5-5(12X58)60DEG-F65	635	5	1M	50°	<0.5mm@0.065m	5	50		isolated	E - 0.6	100	—	5000

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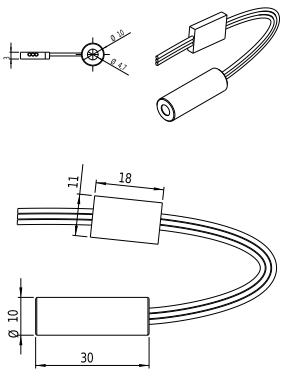
Modulated Line Laser, Ø10x30mm

- High Power
- Compact size
- Laser Class 2
- Operating Voltage 5V DC
- Fixed focus

Size	Ø10x30mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (150mm)
Output Aperture	4.5mm
PCB	✓
PCB size	14.8x10.8x4.7mm

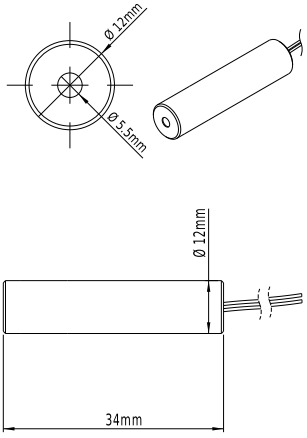


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70117219	MLH650-16-5(10X30)-60DEG-F150	650	16	2	60°	<0.3mm@0.15m	5	60	—	isolated	H -	100	200	5000

Line Laser, Ø12x34mm

- Operating Voltage 3V DC
- Laser Class 1
- Uniform line thickness
- Fixed focus
- Glas lenses anti reflex coated

Size	Ø12x34mm
Beam Shape	Line
Material	Brass
Optics	glass lens AR coated
Focus	fixed (1000mm)
Output Aperture	5.5mm

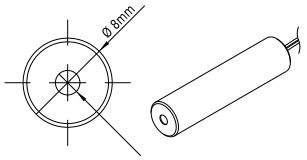


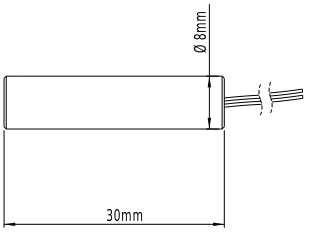
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70101713	LH670-2.5-3(12X34)	670	2.5	1	90°	<1mm@1m	3	40		isolated	H -	100	—	5000

Line Laser, Ø8x30mm

- Operating Voltage 3V DC
- Image processing
- Uniform line thickness
- Compact size
- Laser Class 3R

Size	Ø8x30mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (200mm)



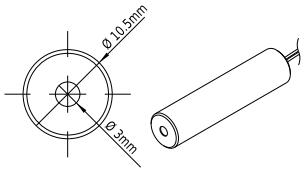


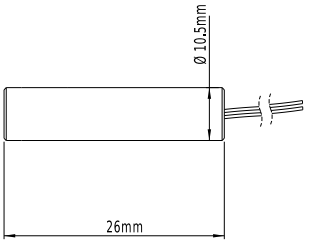
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70115246	LII850-10-3(8X30)-F200	850	10	3R	90°	<0.5mm@0.2m	3	70		isolated	I - 1.5	100	—	5000

Line Laser, Ø10.5x26mm

- Operating Voltage 3V DC
- Fan angle 90°
- Laser Class 1
- Uniform line thickness
- Fixed focus

Size	Ø10.5x26mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (285mm)
Output Aperture	3mm





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70116014	LI635-1-3(10.5X26)-C150-F285	635	1	1	90°	<0.5mm@0.285m	3	27		isolated	I - 1.5	150	—	5000

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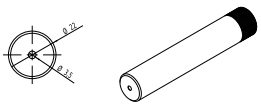
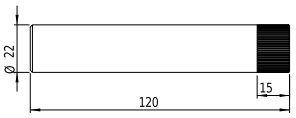
Line Laser, Ø22x120mm

- Operating Voltage 3V DC
- Laser Class 2M
- Fixed focus
- Low power consumption
- With battery

Size	Ø22x120mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (2400mm)
Output Aperture	3.5mm
Battery	CR123A



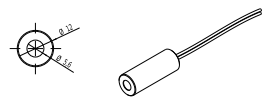


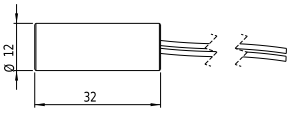
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70115437	LB650-5-3(22X120)10DEG-AP	650	5	2M	10°	<1mm@2.4m	3	20		VDD(+)	B - 0.3		—	10000

Line Laser, Ø12x32mm

- Operating Voltage 3V DC
- Laser Class 1
- Fan angle 90°
- Glas lenses anti reflex coated
- Compact size

Size	Ø12x32mm
Beam Shape	Line
Material	Brass
Optics	glass lens AR coated
Focus	fixed (1000mm)
Output Aperture	5.5mm



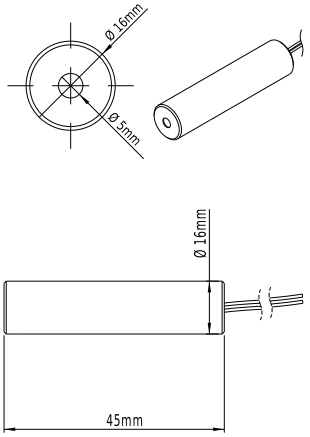


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70101508	LE670-2.5-3(12X32)	670	2.5	1	90°	<1mm@1m	3	40		isolated	E - 0.6	100	—	3000

Modulated Line Laser, Ø16x45mm

- Laser Class 1
- Operating Voltage 5V DC
- Compact size
- Fixed focus
- Image processing

Size	Ø16x45mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (3000mm)
Output Aperture	5mm

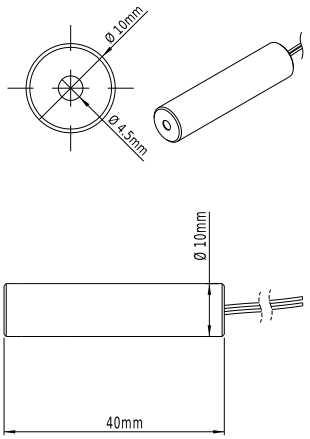


Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70101775	MLH635-4-5(16X45)	635	4	1	90°	<1.5mm@3m	5	35		isolated	H -	100	200	5000

Line Laser, Ø10x40mm

- Operating Voltage 3V DC
- Image processing
- Uniform line thickness
- Compact size
- Laser Class 3R

Size	Ø10x40mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (400mm)
Output Aperture	4.5mm



Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70125627	LH650-5-3(10X40)5DEG-F400	650	5	3R	5°	<0.5mm@0.4m	3	30		isolated	H -	100	—	5000

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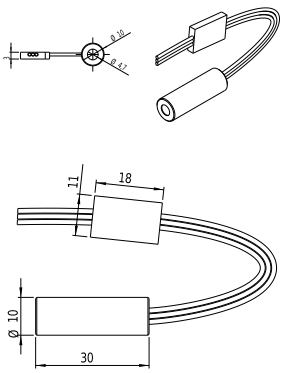
Modulated Line Laser, Ø10x30mm

- High Power
- Compact size
- Laser Class 2
- Operating Voltage 5V DC
- Fixed focus

Size	Ø10x30mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (100mm)
Output Aperture	4.5mm
PCB	✓
PCB size	7.5x14x10mm

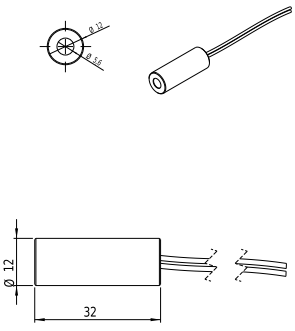


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70116847	MLH650-16-5(10X30)-F100	650	16	2	90°	<0.3mm@0.1m	5	60	—	isolated	H -	100	200	5000

Line Laser, Ø12x32mm

- Operating Voltage 3V DC
- Image processing
- Low power consumption
- Compact size
- Laser Class 1

Size	Ø12x32mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (2000mm)
Output Aperture	6mm

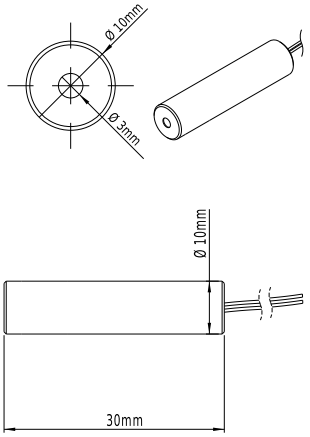


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70100075	LD650-5-3(12X32)	650	5	1	90°	<1mm@2m	3	40		isolated	D - 0.5	100	—	5000

Line Laser, Ø10x30mm

- Fixed focus
- Low power consumption
- For medical devices
- Uniform line thickness
- Image processing

Size	Ø10x30mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (100mm)
Output Aperture	3mm

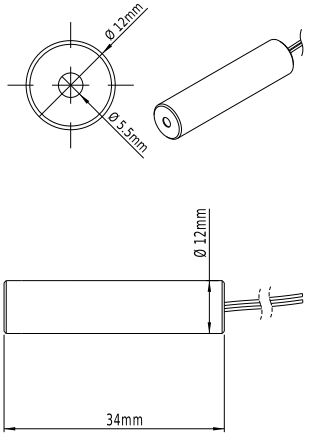


Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70116885	LI650-4-5(10X30)60DEG-F100	650	4	1	60°	<0.3mm@0.1m	5	32		isolated	I - 1.5	100	—	5000

Line Laser, Ø12x34mm

- Operating Voltage 5V DC
- Laser Class 1
- Fixed focus
- Fan angle 37°
- Compact size

Size	Ø12x34mm
Beam Shape	Line
Material	Brass
Optics	glass lens AR coated
Focus	fixed (200mm)
Output Aperture	5.5mm



Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70107258	LD650-5-5(12X34)37-F200	650	5	1	37°	<0.3mm@0.2m	5	31		isolated	D - 0.5	100	—	5000

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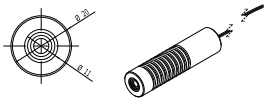
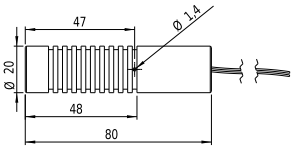
Line Laser, Ø20x80mm

- Compact size
- Operating Voltage 3V DC
- Laser Class 1
- Uniform line thickness
- Fixed focus

Size	Ø20x80mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (1500mm)
Output Aperture	5mm



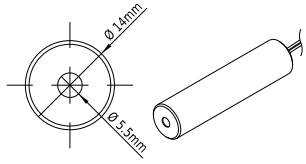


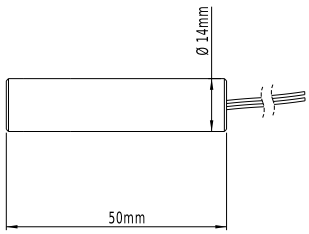
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70112672	LD532-5-3(20X80)-F1500-PL	532	5	1	90°	<1mm@1.5m	3	300		isolated	D - 0.5	100	—	5000

Line Laser, Ø14x50mm

- Operating Voltage 24V DC
- Laser Class 1
- Fan angle 90°
- Compact size
- Uniform line thickness

Size	Ø14x50mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (1000mm)
Output Aperture	5.5mm



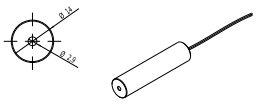


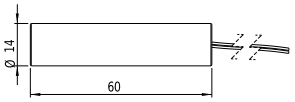
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70117271	LDI650-5-24(14X50)-F1000	650	5	1	90°	<1mm@1m	24	7		isolated	D - 0.5	2000	—	5000

Line Laser, Ø14x60mm

- Operating Voltage 3V DC
- Uniform line thickness
- Compact size
- Laser Class 1
- Fixed focus

Size	Ø14x60mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (3000mm)
Output Aperture	5mm



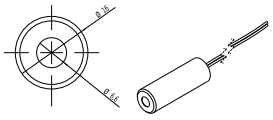


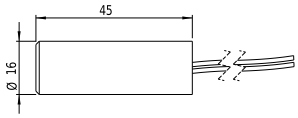
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70101096	LD532-3-3(14X60)	532	3	1	90°	<1.5mm@3m	3	190		isolated	D - 0.5	100	—	5000

Line Laser, Ø16x45mm

- Operating Voltage 3V DC
- Image processing
- Uniform line thickness
- Compact size
- Laser Class 1M

Size	Ø16x45mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (3000mm)
Output Aperture	6.8mm





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70102017	LH850-30-3(16X45)-PL	850	30	1M	90°	<2mm@3m	3	55	—		H -	100	—	5000

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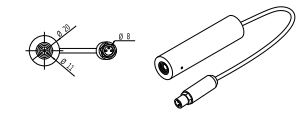
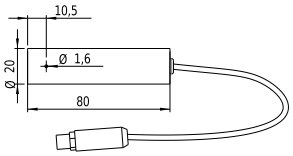
Line Laser, Ø20x80mm

- Operating Voltage24V DC
- Isolated housing
- Laser Class 1
- Compact size
- Protection lens

Size	Ø20x80mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (1500mm)
Output Aperture	6mm



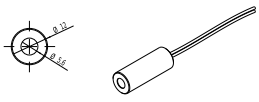


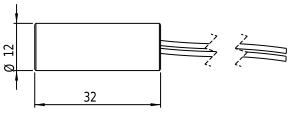
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70113730	LD532-10-24(20X80)-C500	532	10	1	90°	<1mm@1.5m	24	54	✓	isolated	D - 0.5	500	—	10000

Line Laser, Ø12x32mm

- Image processing
- Uniform line thickness
- Laser Class 2
- Compact size

Size	Ø12x32mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (100mm)
Output Aperture	5.5mm



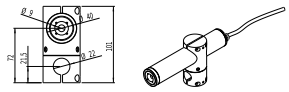


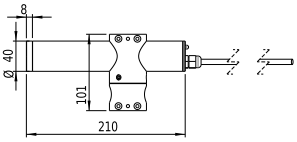
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70110739	LH635-7-5(12X32)30DEG-F100	635	7	2	30°	<0.3mm@0.1m	5	60		isolated	H -	100	—	10000

Line Laser, Ø40x210mm

- Operating Voltage 230V AC
- Laser Class 2
- Fixed focus
- Glas lenses anti reflex coated
- Uniform line thickness

Size	Ø40x210mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (3000mm)
Output Aperture	8mm
Connector	AC CEE 7/7



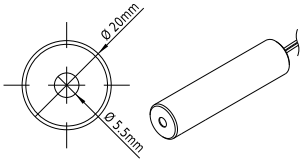


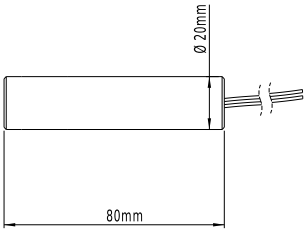
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70113181	LB650-15-230(40X210)-F3000	650	15	2	90°	<1.5mm@3m	230	10		isolated	B - 0.3	1750	—	10000

Line Laser, Ø20x80mm

- Operating Voltage 24V DC
- Laser Class 1M
- Uniform line thickness
- High Power
- Small laser head

Size	Ø20x80mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (500mm)
Output Aperture	5.5mm





Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70122985	LH520-10-24(20X80)-PL-F500-WP	520	10	1M	90°	<0.7mm@0.5m	24	45	✓	isolated	H -	3000	—	10000

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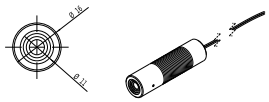
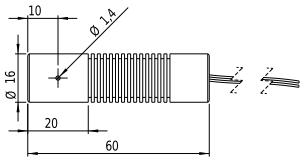
Modulated Line Laser, Ø16x60mm

- Operating Voltage 5V DC
- Laser Class 2M
- Fan angle 10°
- Compact size
- Modulated

Size	Ø16x60mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (3000mm)
Output Aperture	7mm



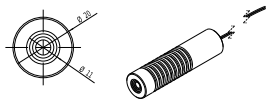


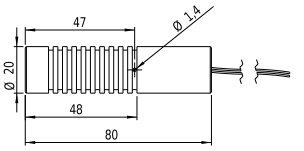
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70102802	MLB650-3.5-5(16X60)10DEG	650	3.5	2M	10°	<1.5mm@3m	5	30	✓	isolated	B - 0.3	700	50	5000

Line Laser, Ø20x80mm

- Laserclass 1
- For medical devices
- Uniform Line

Size	Ø20x80mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (500mm)
Output Aperture	5mm



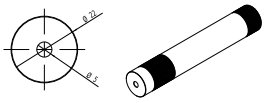


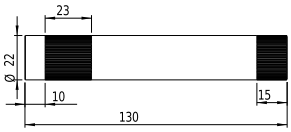
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70100877	LD532-1-3(20X80)	532	1	1	90°	<0.5mm@0.5m	3	140		isolated	D - 0.5	100	—	5000

Line Laser, Ø22x130mm

- Operating Voltage 3V DC
- Compact size
- Laser Class 1
- With battery
- Adjustable focus

Size	Ø22x130mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	5mm
Battery	CR123A



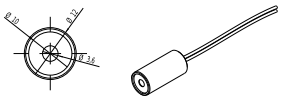


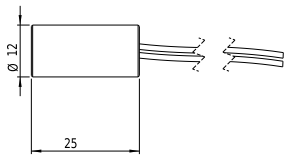
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70109665	LE532-5-3-F-S(22X130)90	532	5	1	90°	adjustable	3	150		VDD(+)	E - 0.6		—	10000

Line Laser, Ø12x28mm

- Fan angle 10°
- Laser Class 3R
- Fixed focus
- Small laser head
- Broad linewidth

Size	Ø12x28mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (3000mm)
Output Aperture	5.5mm





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70120158	LH650-15-5(12X28)10DEG	650	15	3R	10°	15mm@3m	5	70		isolated	H -	100	—	5000

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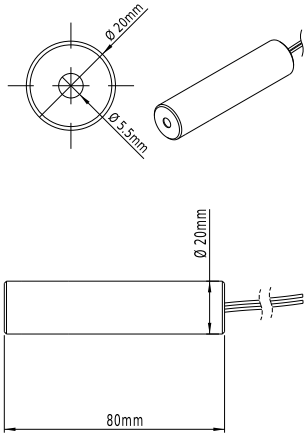
Line Laser, Ø20x80mm

- Operating Voltage 24V DC
- Isolated housing
- Laser Class 2M
- Protection lens
- M12 connector

Size	Ø20x80mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (3000mm)
Output Aperture	5.5mm
Connector	CON-M12

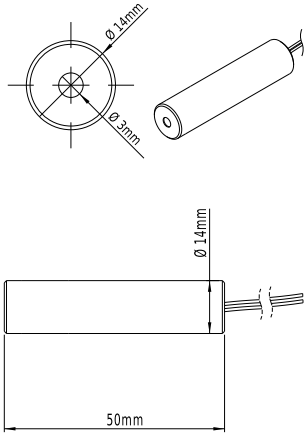


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70128642	LH650-20-24(20X80)-M12-BASIS	650	20	2M	90°	<1.5mm@3m	24	20	✓	isolated	H -		—	10000

Modulated Line Laser, Ø14x50mm

- Operating Voltage 5V DC
- Laser Class 2
- Adjustable focus
- Analog modulatable

Size	Ø14x50mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (2000mm)
Output Aperture	3mm

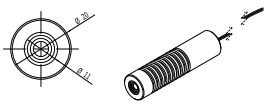


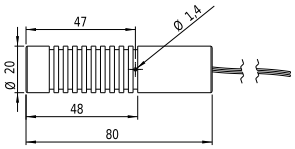
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70122527	AMLD635-1-5(14X50)-5DEG	635	0.9	2	5°	1.5mm@2m	5	35	—	isolated	D - 0.5	200	1	10000

Line Laser, Ø20x80mm

- Compact size
- Fixed focus
- Operating Voltage 3V DC
- Image processing
- Laser Class 1

Size	Ø20x80mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (750mm)
Output Aperture	5mm



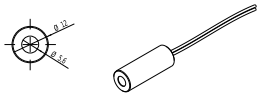


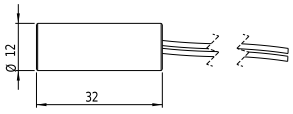
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70113129	LD532-10-3(20X80)-F750	532	10	1	90°	<0.5mm@0.75m	3	250		isolated	D - 0.5	100	—	5000

Line Laser, Ø12x32mm

- Operating Voltage 3V DC
- Laser Class 1
- Fan angle 90°
- Fixed focus
- Compact size

Size	Ø12x32mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (1500mm)
Output Aperture	4.5mm





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70101690	LH635-2.5-3(12X32)	635	2.5	1	90°	<1.5mm@1.5m	3	30		isolated	H -	100	—	5000

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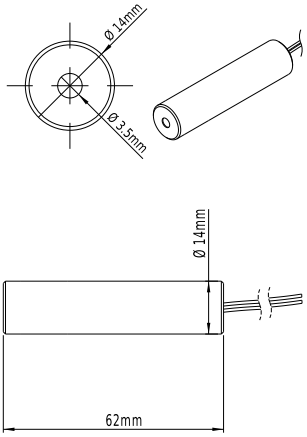
Line Laser, Ø14x62mm

- Adjustable focus
- Operating Voltage 24V DC
- Adjustable focus
- Small fan angle
- Image processing

Size	Ø14x62mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	3.5mm

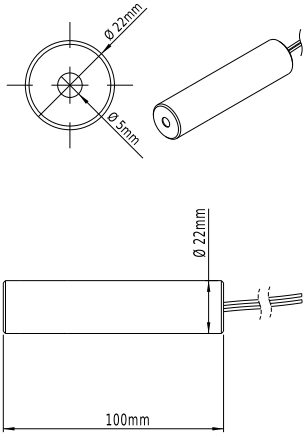


Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70124736	LC650-16-24-F(14X62)30	650	16	2M	30°	adjustable	24	15		isolated	C - 0.4	100	—	5000

Line Laser, Ø22x100mm

- Operating Voltage 3V DC
- Laser Class 1
- Adjustable focus
- Glas lenses anti reflex coated
- Image processing

Size	Ø22x100mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	5mm
Battery	CR123A

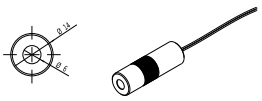


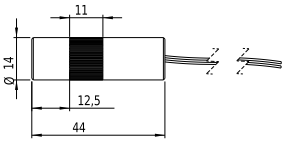
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70113518	LE405-5-3-F-S(22X100)	405	5	1	90°	adjustable	3	55			E - 0.6		—	5000

Line Laser, Ø14x45mm

- With 230V power supply
- Adjustable focus
- Low power consumption
- Compact size
- Laser Class 1

Size	Ø14x45mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	4mm
Power Supply included	✓



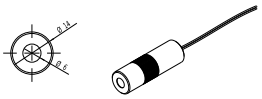


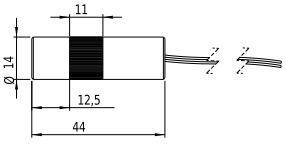
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70107302	LC650-5-5-F(14X45)-NT	650	5	1	90°	adjustable	5	30		isolated	C - 0.4	1130	—	5000

Line Laser, Ø14x45mm

- Laser Class 1
- Image processing
- Adjustable focus
- Compact size
- Uniform line thickness

Size	Ø14x45mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	6mm
Power Supply included	✓
Connector	2.5 mm DC socket (GND pole





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70125924	LC650-5-3-F(14X45)-NT	650	5	1	90°	adjustable	3	35		isolated	C - 0.4	100	—	5000

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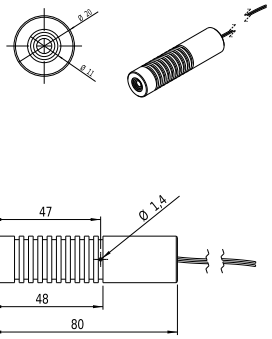
Modulated Line Laser, Ø20x80mm

Size	Ø20x80mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (1000mm)
Output Aperture	5mm

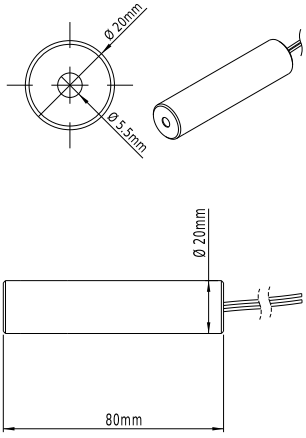


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70100884	MLD532-1-5(20X80)	532	1	1	90°	<0.7mm@1m	5	125		isolated	D - 0.5	100	10	5000

Line Laser, Ø20x80mm

- Operating Voltage 24V DC
- Isolated housing
- Laser Class 2M
- Protection lens
- M12 Connector

Size	Ø20x80mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (2000mm)
Output Aperture	5.5mm
Connector	CON-M12

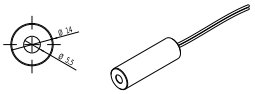


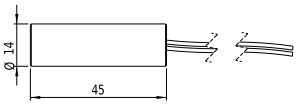
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70128659	LH532-20-24(20X80)-M12-BASIS	532	20	2M	90°	<1.5mm@2m	24	150	✓	isolated	H -		—	6000

Line Laser, Ø14x45mm

- Operating Voltage 3V DC
- Laser Class 2
- Uniform line thickness
- Compact size
- Fixed focus

Size	Ø14x45mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (1500mm)
Output Aperture	5.5mm



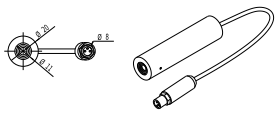


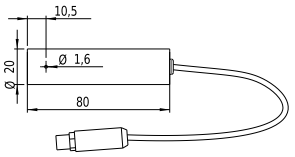
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70109764	LH650-16-3(14X45)-F1500	650	16	2	90°	<1mm@1.5m	3	60		isolated	H -	100	—	5000

Line Laser, Ø20x80mm

- Operating Voltage 24V DC
- Isolated housing
- Laser Class 1
- Small laser head
- Protection lens

Size	Ø20x80mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (1500mm)
Output Aperture	5.5mm
Connector	CON-M12





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70125573	LH650-16-24(20X80)-C500-CON	650	16	2	90°	<2mm@1.5m	24	12	✓	isolated	H -	500	—	10000

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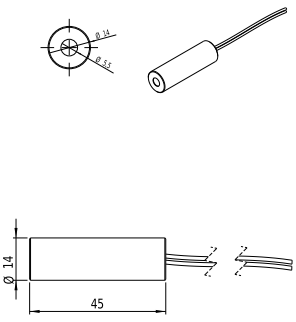
Line Laser, Ø14x45mm

- High Power
- Compact size
- Laser Class 2
- Operating Voltage 5V DC
- Fixed focus

Size	Ø14x45mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (1800mm)
Output Aperture	5.5mm
Power Supply included	✓
Connector	2.1 mm DC plug (GND pole

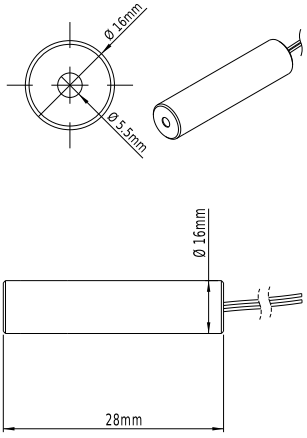


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70131161	LH650-16-5(14X45)110DEG-NT	650	16	2	110°	<1.5mm@1.8m	5	57		isolated	H -	750	—	5000

Line Laser, Ø16x28mm

- Laser Class 3R
- Low power consumption
- Uniform line thickness
- Image processing

Size	Ø16x28mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (500mm)
Output Aperture	5.5mm

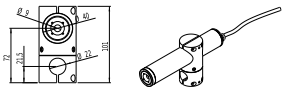


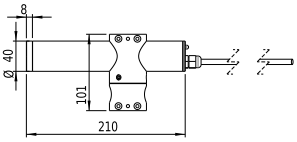
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70120127	LE658-60-3(16X28)120DEG-F500	658	60	3R	120°	<0.5mm@0.5m	3	180		isolated	E - 0.6	100	—	10000

Line Laser, Ø40x210mm

- Operating Voltage 230V AC
- Laser Class 2
- Fixed focus
- Glas lenses anti reflex coated
- Uniform line thickness

Size	Ø40x210mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (5.0m)
Output Aperture	8mm
Connector	AC CEE 7/7



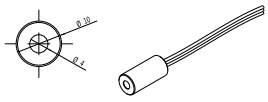


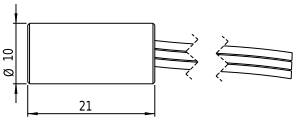
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70131147	LB650-15-230(40X210)-F5000	650	15	2	90°	<1.5mm@5m	230	10		isolated	B - 0.3	1750	—	10000

Line Laser, Ø10x21mm

- Operating Voltage 5V DC
- Laser Class 1
- Fixed focus
- Uniform line thickness
- Glas lenses anti reflex coated

Size	Ø10x21mm
Beam Shape	Line
Material	Brass
Optics	glass lens AR coated
Focus	fixed (500mm)
Output Aperture	5mm





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70103335	LG650-3-5(10X21)-F500	650	3	1	90°	<0.5mm@0.5m	5	25		VDD(+)	G - 0.8	100	—	5000

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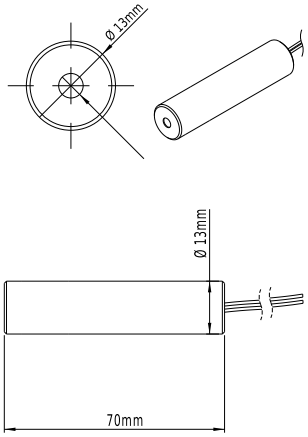
Line Laser, Ø13x70mm

Size	Ø13x70mm
Beam Shape	Line
Material	Brass
Optics	glass lens AR coated
Focus	fixed (5.0m)

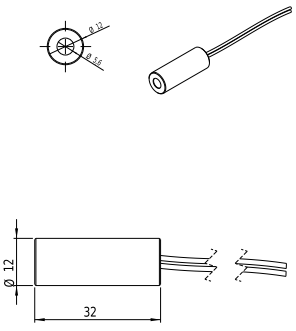


Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70129748	L532-1-3(13X70)120DEG-F5000	532	1	2	120°	2.5mm@5m	3	300		VDD(+)		127	—	3000

Line Laser, Ø12x32mm

- Laser Class 1
- Operating Voltage 3V DC
- Compact size
- Low power consumption
- Fixed focus

Size	Ø12x32mm
Beam Shape	Line
Material	Brass
Optics	glass lens AR coated
Focus	fixed (2000mm)
Output Aperture	5.5mm



Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70100990	LD650-2.2-3(12X32)	650	2.2	1	90°	<2mm@2m	3	30		isolated	D - 0.5	100	—	5000

Kreuzlaser | Cross Laser

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Divergence mrad	Focus	Operating Voltage V DC	Operating Current mA	Size mm	Potential of Housing	Cable length mm	Page
70124668	CI520-4-3(12X47)	520	4	1	90°	I - 1.5	collimated	3	120	Ø12x47	isolated	150	158
70120752	CE520-30-230(40X210)	520	30	2M	90°	E - 0.6	fixed (7.0m)	230	10	Ø40x210	isolated	1750	158
70124071	CA532-0.4-3(20X80)-F100	532	0.4	1	90°	0.2	fixed (100mm)	3	100	Ø20x80	isolated	200	161
70104394	CA532-0.4-3(20X80)	532	0.4	1	90°	A - 0.1	fixed (2000mm)	3	200	Ø20x80	isolated	100	152
70100198	CA532-1-3(20X80)	532	1	1	90°	0.2	fixed (2000mm)	3	160	Ø20x80	isolated	100	152
70100181	CA532-1-3(20X95)	532	1	1	90°	0.2	fixed (2000mm)	3	300	Ø20x95	isolated	100	159
70100273	CA532-5-3(20X80)	532	5	1	90°	0.2	fixed (3000mm)	3	224	Ø20x80	isolated	100	151
70126136	CA532-5-3(20X80)-CON	532	5	1	90°	0.2	fixed (3000mm)	3	224	Ø20x80	isolated	100	160
70123951	CA532-5-24(20X80)	532	5	1	90°	0.2	fixed (3000mm)	24	20	Ø20x80	isolated	100	151
70124040	CA532-5-24(20X80)-C3000	532	5	1	90°	0.2	fixed (3000mm)	24	20	Ø20x80	isolated	3000	151
70109825	CB532-10-3-F-S(22X130)90DEG	532	10	1	90°	B - 0.3	adjustable	3	300	Ø22x130	VDD(+)		155
70105193	CA532-10-3(20X80)30	532	10	2M	30°	0.2	fixed (5.0m)	3	250	Ø20x80	isolated	100	162
70100310	CA532-10-3(20X80)	532	10	1	90°	0.2	fixed (3000mm)	3	220	Ø20x80	isolated	100	151
70107173	CB635-2-3(16X45)-F100-PL	635	2	1	90°	B - 0.3	fixed (100mm)	3	35	Ø16x45	isolated	100	163
70116588	CB635-2-5(16X45)5DEG	635	2	1	5°	B - 0.3	fixed (75mm)	5	35	Ø16x45	isolated	100	165
70122183	CB635-2-24(16X64)10DEG-F1000	635	2	1	10°	B - 0.3	fixed (1000mm)	24	20	Ø16x64	isolated	100	157
70110456	CB635-2-5(16X45)-PL	635	2	1	90°	B - 0.3	fixed (2000mm)	5	35	Ø16x45	isolated	100	157
70116762	MCB635-2-3.3(16X45)	635	2	1	90°	B - 0.3	fixed (685mm)	3.3	40	Ø16x45	isolated	400	155
70121438	CB635-2-24(16X64)75DEG-F500-PL	635	2	1	75°	B - 0.3	fixed (500mm)	24	20	Ø16x64	isolated	100	166
70105346	CB635-2-3(16X45)-F1000	635	2	1	90°	B - 0.3	fixed (1000mm)	3	31	Ø16x45	isolated	100	153
70120721	CB635-2-24(16X45)-F500-PL	635	2	1	90°	B - 0.3	fixed (500mm)	24	37	Ø16x45	isolated	100	152
70103106	CB635-2-3(16X45)	635	2	1	90°	B - 0.3	fixed (2000mm)	3	29	Ø16x45	isolated	100	153
70106435	CB635-2-3(16X45)-PL	635	2	1	90°	B - 0.3	fixed (2000mm)	3	29	Ø16x45	isolated	100	153
70106428	CB635-2-3(16X45)-F500-PL	635	2	1	90°	B - 0.3	fixed (500mm)	3	30	Ø16x45	isolated	100	152
70117264	CB635-2-5(16X45)10DEG-F110	635	2	1	10°	B - 0.3	fixed (110mm)	5	28	Ø16x45	isolated	100	154
70106763	CB635-5-6(16X45)-F500-PL-C1000	635	5	1	90°	B - 0.3	fixed (500mm)	6	47	Ø16x45	isolated	1000	152
70122237	CB635-5-3(16X45)45DEG	635	5	1	45°	B - 0.3	fixed (3000mm)	3	55	Ø16x45	isolated	100	151
70109016	CB635-5-5(16X45)	635	5	1	90°	B - 0.3	fixed (3000mm)	5	35	Ø16x45	isolated	100	162
70107104	CB635-5-3(16X45)-PL	635	5	1	90°	B - 0.3	fixed (3000mm)	3	51	Ø16x45	isolated	100	151
70110463	CB635-5-5(16X45)15-F200	635	5	2M	15°	B - 0.3	fixed (200mm)	5	50	Ø16x45	isolated	100	163
70107098	CB635-5-3(16X45)	635	5	1	90°	B - 0.3	fixed (3000mm)	3	50	Ø16x45	isolated	100	151
70110418	CB635-5-3-F(20X73)60DEG	635	5	1	60°	B - 0.3	adjustable	3	45	Ø20x73	isolated	100	164
70100440	CB650-0.4-3(16X45)	650	0.4	1	90°	B - 0.3	fixed (1000mm)	3	20	Ø16x45		100	153
70118131	CB650-0.9-3(16X45)60DEG-F200	650	0.9	1	60°	B - 0.3	fixed (200mm)	3	35	Ø16x45		100	164
70100518	CB650-1.2-3(16X45)-F100	650	1.2	1	90°	B - 0.3	fixed (100mm)	3	25	Ø16x45	isolated	100	159
70105124	CB650-1.2-3(16X45)	650	1.2	1	90°	B - 0.3	fixed (2000mm)	3	25	Ø16x45	isolated	100	154
70116786	MCB650-5-3.3(16X61)-PL	650	3	1	45°	B - 0.3	fixed (685mm)	3.3	40	Ø16x61	isolated	400	156
70107753	CB650-5-3-F-S(22X110)	650	5	1	90°	B - 0.3	adjustable	3	30	Ø22x110	VDD(+)		161
70124491	MCB650-5-24(16X81)45-PL	650	5	1	45°	B - 0.3	fixed (5.0m)	24	10	Ø16x81	isolated	400	160
70103113	CB650-5-3(16X45)	650	5	1	90°	B - 0.3	fixed (3000mm)	3	30	Ø16x45	isolated	100	151
70121599	CB650-10-24(20X80)-C3000-G	650	10	2	60°	B - 0.3	fixed (3000mm)	24	5	Ø20x80	isolated	3000	156
70123616	MCB650-20-5(16X45)	650	20	1	90°	B - 0.3	fixed (1500mm)	5	80	Ø16x45	isolated	100	166
70100556	CB670-2-3(16X45)	670	2	1	90°	B - 0.3	fixed (2000mm)	3	45	Ø16x45	isolated	100	154
70117387	CB850-2-5(16X45)10DEG-F110	850	2	1	10°	B - 0.3	fixed (110mm)	5	20	Ø16x45	isolated	100	154
70124026	CB850-15-5(16X45)10DEG-F160-POTI	850	15	3R	10°	B - 0.3	fixed (160mm)	5	120	Ø16x45	isolated	100	165

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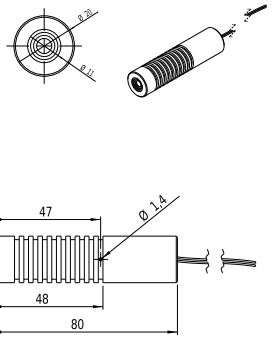
Cross Laser, Ø20x80mm

- Laser Class 1
- Uniform line thickness

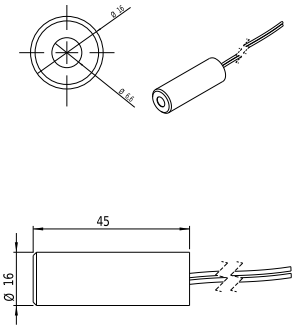
Size	Ø20x80mm
Beam Shape	Cross
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (3000mm)
Output Aperture	5mm
Verticality	< ±0.5°



Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70100273	CA532-5-3(20X80)	532	5	1	90°	<1.5mm@3m	3	224		isolated	0.2	100	—	5000
70123951	CA532-5-24(20X80)	532	5	1	90°	<1.5mm@3m	24	20		isolated	0.2	100	—	5000
70124040	CA532-5-24(20X80)-C3000	532	5	1	90°	<1.5mm@3m	24	20		isolated	0.2	3000	—	5000
70100310	CA532-10-3(20X80)	532	10	1	90°	<1.5mm@3m	3	220		isolated	0.2	100	—	5000

Cross Laser, Ø16x45mm

Size	Ø16x45mm
Beam Shape	Cross
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (3000mm)
Output Aperture	6.8mm
Verticality	< ±0.5°

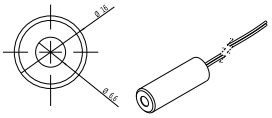


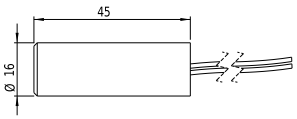
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70122237	CB635-5-3(16X45)45DEG	635	5	1	45°	<1.5mm@3m	3	55		isolated	B - 0.3	100	—	5000
70107098	CB635-5-3(16X45)	635	5	1	90°	<1.5mm@3m	3	50		isolated	B - 0.3	100	—	5000
70107104	CB635-5-3(16X45)-PL	635	5	1	90°	<1.5mm@3m	3	51	✓	isolated	B - 0.3	100	—	5000
70103113	CB650-5-3(16X45)	650	5	1	90°	<1.5mm@3m	3	30		isolated	B - 0.3	100	—	5000

Cross Laser, Ø16x45mm

- Laser Class 1
- Uniform line thickness

Size	Ø16x45mm
Beam Shape	Cross
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (500mm)
Output Aperture	6.8mm
Verticality	< ±0.5°



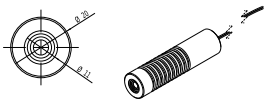


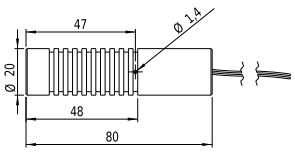
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70106428	CB635-2-3(16X45)-F500-PL	635	2	1	90°	<0.3mm@0.5m	3	30	✓	isolated	B - 0.3	100	—	5000
70120721	CB635-2-24(16X45)-F500-PL	635	2	1	90°	<0.3mm@0.5m	24	37	✓	isolated	B - 0.3	100	—	10000
70106763	CB635-5-6(16X45)-F500-PL-C1000	635	5	1	90°	<0.5mm@0.5m	6	47	✓	isolated	B - 0.3	1000	—	5000

Cross Laser, Ø20x80mm

- Fan angle 90°
- Laser Class 1
- Operating Voltage 3V DC

Size	Ø20x80mm
Beam Shape	Cross
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (2000mm)
Output Aperture	5mm
Verticality	< ±0.5°





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70104394	CA532-0.4-3(20X80)	532	0.4	1	90°	<1mm@2m	3	200		isolated	A - 0.1	100	—	5000
70100198	CA532-1-3(20X80)	532	1	1	90°	<1mm@2m	3	160		isolated	0.2	100	—	5000

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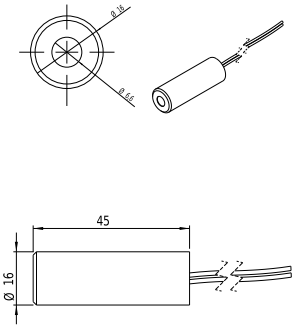
Cross Laser, Ø16x45mm

- Operating Voltage 3V DC
- Laser Class 1

Size	Ø16x45mm
Beam Shape	Cross
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (2000mm)
Output Aperture	6.8mm
Verticality	< ±0.5°

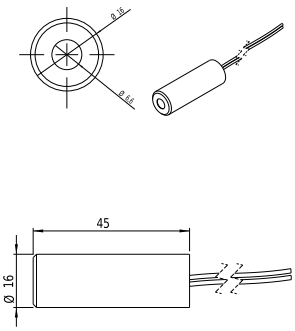


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70103106	CB635-2-3(16X45)	635	2	1	90°	<1.5mm@2m	3	29		isolated	B - 0.3	100	—	5000
70106435	CB635-2-3(16X45)-PL	635	2	1	90°	<1.5mm@2m	3	29	✓	isolated	B - 0.3	100	—	5000

Cross Laser, Ø16x45mm

- Operating Voltage 3V DC
- Laser Class 1

Size	Ø16x45mm
Beam Shape	Cross
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (1000mm)
Output Aperture	6.8mm
Verticality	< ±0.5°

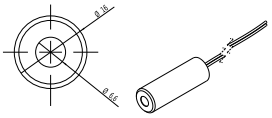


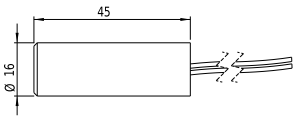
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70105346	CB635-2-3(16X45)-F1000	635	2	1	90°	<0.4mm@1m	3	31	✓	isolated	B - 0.3	100	—	5000
70100440	CB650-0.4-3(16X45)	650	0.4	1	90°	<1,5mm@1m	3	20			B - 0.3	100	—	5000

Cross Laser, Ø16x45mm

- Operating Voltage 5V DC
- Laser Class 1
- Fan angle 10°
- Uniform line thickness
- Fixed focus

Size	Ø16x45mm
Beam Shape	Cross
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (110mm)
Output Aperture	6.8mm
Verticality	< ±0.5°



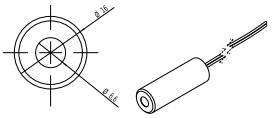


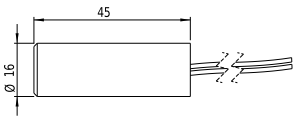
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70117264	CB635-2-5(16X45)10DEG-F110	635	2	1	10°	<0.3mm@0.11m	5	28	—	isolated	B - 0.3	100	—	5000
70117387	CB850-2-5(16X45)10DEG-F110	850	2	1	10°	<0.3mm@0.11m	5	20	—	isolated	B - 0.3	100	—	5000

Cross Laser, Ø16x45mm

- Operating Voltage 3V DC
- Laser Class 1

Size	Ø16x45mm
Beam Shape	Cross
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (2000mm)
Output Aperture	6.8mm





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70105124	CB650-1.2-3(16X45)	650	1.2	1	90°	<1.5mm@2m	3	25		isolated	B - 0.3	100	—	5000
70100556	CB670-2-3(16X45)	670	2	1	90°	<1.5mm@2m	3	45		isolated	B - 0.3	100	—	5000

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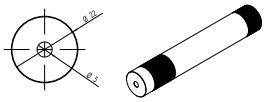
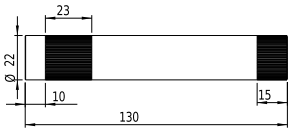
Cross Laser, Ø22x130mm

- Operating Voltage 3V DC
- Laser Class 1
- Adjustable focus
- With battery
- Protection lens

Size	Ø22x130mm
Beam Shape	Cross
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	5mm
Verticality	< ±0.5°
Battery	CR123A



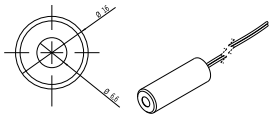


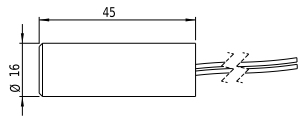
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70109825	CB532-10-3-F-S(22X130)90DEG	532	10	1	90°		3	300		VDD(+)	B - 0.3		—	5000

Modulated Cross Laser, Ø16x45mm

- Operating Voltage 3.3V DC
- Laser Class 1
- Low power consumption
- Compact size
- Fixed focus

Size	Ø16x45mm
Beam Shape	Cross
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (685mm)
Output Aperture	7mm
Verticality	< ±0.5°



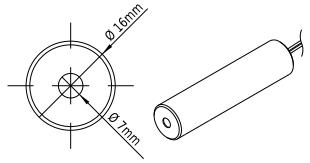


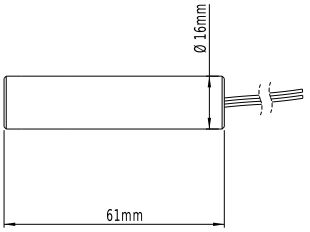
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70116762	MCB635-2-3.3(16X45)	635	2	1	90°	<0.5mm@0.685m	3.3	40	✓	isolated	B - 0.3	400	50	10000

Modulated Cross Laser, Ø16x61mm

- Operating Voltage 3.3V DC
- Low power consumption
- Modulated 50kHz directly over 3
- 3V DC
- Module has only 2 wires

Size	Ø16x61mm
Beam Shape	Cross
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (685mm)
Output Aperture	7mm
Verticality	< ±0.5°



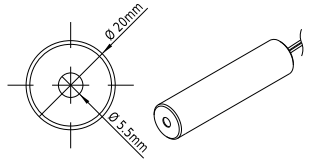


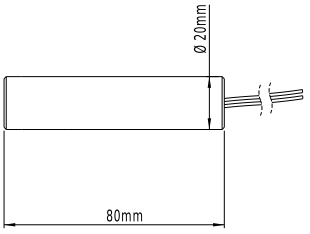
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70116786	MCB650-5-3.3(16X61)-PL	650	3	1	45°	<0.5mm@0.685m	3.3	40	✓	isolated	B - 0.3	400	50	10000

Cross Laser, Ø20x80mm

- Operating Voltage 24V DC
- Laser Class 2
- Uniform line thickness
- High Power
- Small laser head

Size	Ø20x80mm
Beam Shape	Cross
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (3000mm)
Output Aperture	5.5mm





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70121599	CB650-10-24(20X80)-C3000-G	650	10	2	60°	<1.5mm@3m	24	5	—	isolated	B - 0.3	3000	—	10000

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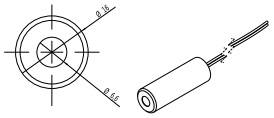
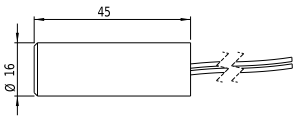
Cross Laser, Ø16x45mm

- Operating Voltage 5V DC
- Laser Class 1
- For medical devices
- Image processing
- Uniform line thickness

Size	Ø16x45mm
Beam Shape	Cross
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (2000mm)
Output Aperture	7mm
Verticality	< ±0.5°



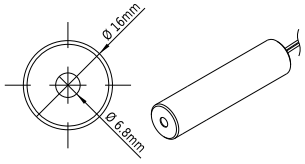


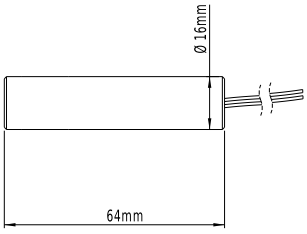
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70110456	CB635-2-5(16X45)-PL	635	2	1	90°	<1mm@2m	5	35		isolated	B - 0.3	100	—	5000

Cross Laser, Ø16x64mm

- Operating Voltage 24V DC
- Laser Class 1
- Fan angle 10°
- Uniform line thickness
- Fixed focus

Size	Ø16x64mm
Beam Shape	Cross
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (1000mm)
Output Aperture	6.8mm
Verticality	< ±0.5°



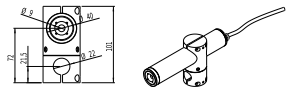


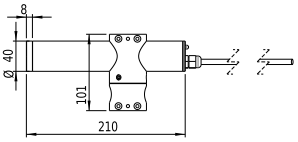
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70122183	CB635-2-24(16X64)10DEG-F1000	635	2	1	10°	<1mm@1m	24	20	—	isolated	B - 0.3	100	—	5000

Cross Laser, Ø40x210mm

- Operating Voltage 230V AC
- Glas lenses anti reflex coated
- Laser Class 2M
- High power
- Uniform line thickness

Size	Ø40x210mm
Beam Shape	Cross
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (7.0m)
Output Aperture	8mm
Connector	AC CEE 7/7



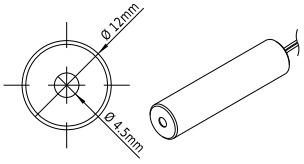


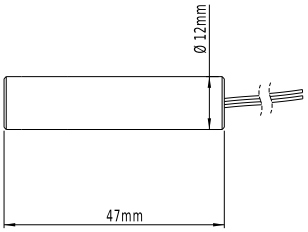
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70120752	CE520-30-230(40X210)	520	30	2M	90°	<3mm@7m	230	10		isolated	E - 0.6	1750	—	6000

Cross Laser, Ø12x47mm

- Low Power consumption
- Direct green 520nm

Size	Ø12x47mm
Beam Shape	Cross
Material	aluminium
Optics	glass lens AR coated
Focus	collimated
Output Aperture	4.5mm
PCB	—





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70124668	CI520-4-3(12X47)	520	4	1	90°	<3mm@3m	3	120		isolated	I - 1.5	150	—	10000

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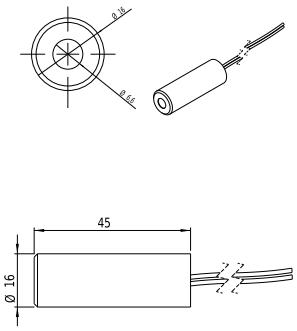
Modulated Cross Laser, Ø16x45mm

Size	Ø16x45mm
Beam Shape	Cross
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (100mm)
Output Aperture	6.8mm

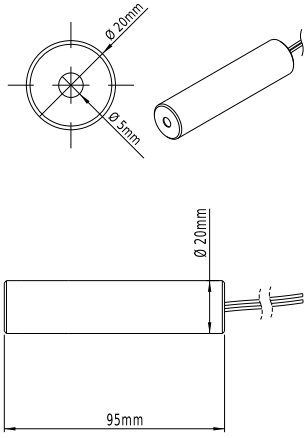


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70100518	CB650-1.2-3(16X45)-F100	650	1.2	1	90°	<0.3mm@0.1m	3	25		isolated	B - 0.3	100	50	5000

Cross Laser, Ø20x95mm

- Laser Class 1
- Operating Voltage 3V DC
- Uniform line thickness
- Compact size
- For medical devices

Size	Ø20x95mm
Beam Shape	Cross
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (2000mm)
Output Aperture	5mm
Verticality	< ±0.5°

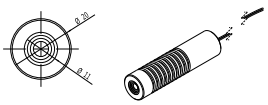


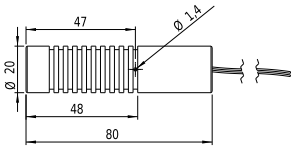
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70100181	CA532-1-3(20X95)	532	1	1	90°	<1.5mm@2m	3	300		isolated	0.2	100	—	5000

Cross Laser, Ø20x80mm

- Operating Voltage 3V DC
- Laser Class 1
- Fan angle 90°
- Uniform line thickness
- Fixed focus

Size	Ø20x80mm
Beam Shape	Cross
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (3000mm)
Output Aperture	5mm
Connector	2.5 mm DC socket (GND pole
Verticality	< ±0.5°



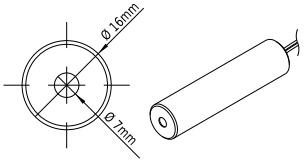


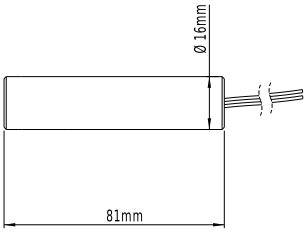
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70126136	CA532-5-3(20X80)-CON	532	5	1	90°	<1.5mm@3m	3	224		isolated	0.2	100	—	5000

Modulated Cross Laser, Ø16x81mm

- Operating Voltage 24V DC
- Low power consumption
- Modulated 50kHz directly over 3
- 3V DC

Size	Ø16x81mm
Beam Shape	Cross
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (5.0m)
Output Aperture	7mm
Verticality	< ±0.5°





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70124491	MCB650-5-24(16X81)45-PL	650	5	1	45°	<3mm@5m	24	10	✓	isolated	B - 0.3	400	100	10000

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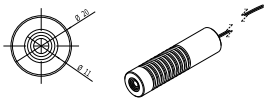
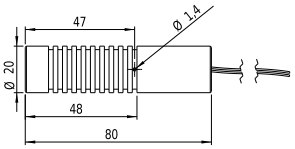
Cross Laser, Ø20x80mm

- Glas lenses anti reflex coated
- Operating Voltage 3V DC
- Laser Class 1
- Uniform line thickness
- Medical devices

Size	Ø20x80mm
Beam Shape	Cross
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (100mm)
Output Aperture	5mm
Verticality	< ±0.5°



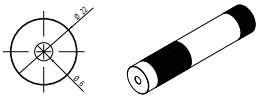


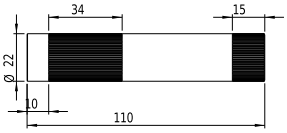
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70124071	CA532-0.4-3(20X80)-F100	532	0.4	1	90°	<0.2mm@100mm	3	100		isolated	0.2	200	—	5000

Cross Laser, Ø22x110mm

- Fan angle 90°
- Laser Class 1
- With battery
- Low power consumption
- Adjustable focus

Size	Ø22x110mm
Beam Shape	Cross
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	6mm
Verticality	< ±0.5°
Battery	CR123A



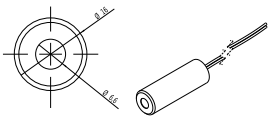


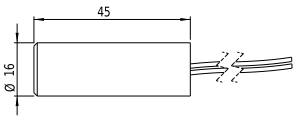
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70107753	CB650-5-3-F-S(22X110)	650	5	1	90°		3	30		VDD(+)	B - 0.3		—	5000

Cross Laser, Ø16x45mm

- Operating Voltage 5V DC
- Fan angle 90°
- Laser Class 1
- Compact size
- Uniform line thickness

Size	Ø16x45mm
Beam Shape	Cross
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (3000mm)
Output Aperture	7mm
Verticality	< ±0.5°



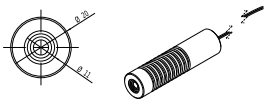


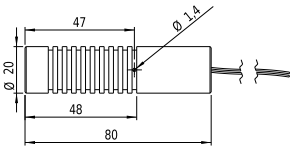
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70109016	CB635-5-5(16X45)	635	5	1	90°	<1.5mm@3m	5	35		isolated	B - 0.3	100	—	10000

Cross Laser, Ø20x80mm

- Operating Voltage 3V DC
- Fan angle 30°
- High Power
- Fixed focus
- Laser Class 2M

Size	Ø20x80mm
Beam Shape	Cross
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (5.0m)
Output Aperture	5mm
Verticality	< ±0.5°





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70105193	CA532-10-3(20X80)30	532	10	2M	30°	<3mm@5m	3	250		isolated	0.2	100	—	5000

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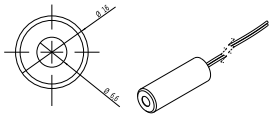
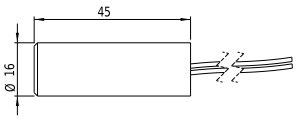
Cross Laser, Ø16x45mm

- Operating Voltage 5V DC
- Isolated housing
- Small fan angle
- Image processing

Size	Ø16x45mm
Beam Shape	Cross
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (200mm)
Output Aperture	7mm
Verticality	< ±0.5°



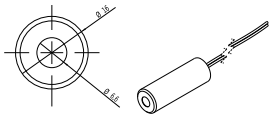


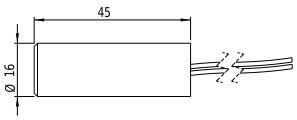
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70110463	CB635-5-5(16X45)15-F200	635	5	2M	15°	<0.7mm@0.2m	5	50		isolated	B - 0.3	100	—	10000

Cross Laser, Ø16x45mm

- Image processing
- Laser Class 1
- Uniform line thickness
- Compact size
- Protection lens

Size	Ø16x45mm
Beam Shape	Cross
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (100mm)
Output Aperture	6.8mm
Verticality	< ±0.5°



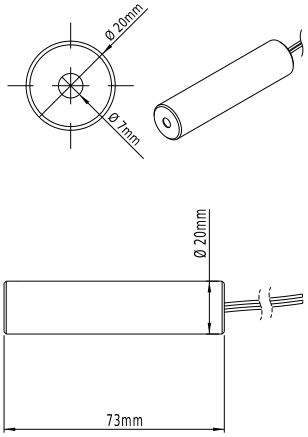


Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70107173	CB635-2-3(16X45)-F100-PL	635	2	1	90°	<0.5mm@0.1m	3	35	✓	isolated	B - 0.3	100	—	5000

Cross Laser, Ø20x73mm

- Operating Voltage 3V DC
- Laser Class 1
- Adjustable focus
- Compact size
- Fan angle 60°

Size	Ø20x73mm
Beam Shape	Cross
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	7mm
Verticality	< ±0.5°

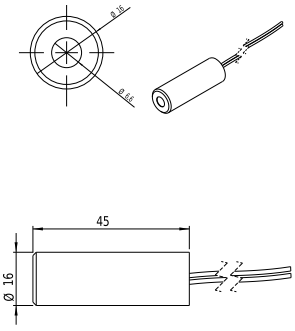


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70110418	CB635-5-3-F(20X73)60DEG	635	5	1	60°		3	45		isolated	B - 0.3	100	—	5000

Cross Laser, Ø16x45mm

- Operating Voltage 3V DC
- Laser Class 1
- Small laser head
- Fixed focus
- Glas lenses anti reflex coated

Size	Ø16x45mm
Beam Shape	Cross
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (200mm)
Output Aperture	6.8mm
Verticality	< ±0.5°



Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70118131	CB650-0.9-3(16X45)60DEG-F200	650	0.9	1	60°	<1.0mm@0.2m	3	35			B - 0.3	100	—	5000

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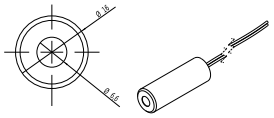
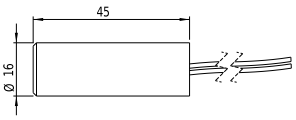
Cross Laser, Ø16x45mm

- Operating Voltage 5V DC
- Laser Class 3R
- Fan angle 10°
- Uniform line thickness
- Fixed focus

Size	Ø16x45mm
Beam Shape	Cross
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (160mm)
Output Aperture	6.8mm
Verticality	< ±0.5°



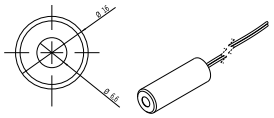


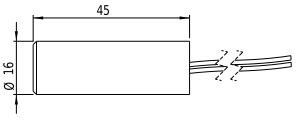
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70124026	CB850-15-5(16X45)10DEG-F160-POTI	850	15	3R	10°	<0.5mm@0.160m	5	120	—	isolated	B - 0.3	100	—	5000

Cross Laser, Ø16x45mm

- Operating Voltage 5V DC
- Laser Class 1
- Fan angle 5°
- Uniform line thickness
- Fixed focus

Size	Ø16x45mm
Beam Shape	Cross
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (75mm)
Output Aperture	6.8mm
Verticality	< ±0.5°



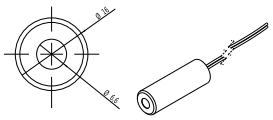


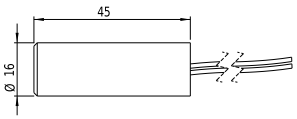
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Line Thickness	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Max. Mod. Frequency kHz	Lifetime h
70116588	CB635-2-5(16X45)5DEG	635	2	1	5°	<0.3mm@0.075m	5	35	—	isolated	B - 0.3	100	—	5000

Modulated Cross Laser, Ø16x45mm

- Operating Voltage 5V DC
- Laser Class 1
- Low power consumption
- Modulated
- Fixed focus

Size	Ø16x45mm
Beam Shape	Cross
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (1500mm)
Output Aperture	6.8mm
Verticality	< ±0.5°



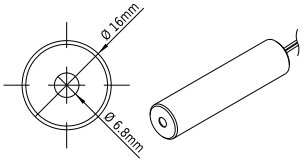


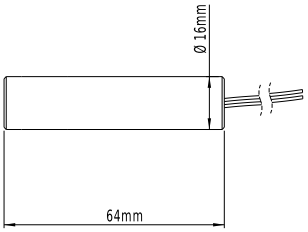
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70123616	MCB650-20-5(16X45)	650	20	1	90°	<1.5mm@1.5m	5	80		isolated	B - 0.3	100	20	5000

Cross Laser, Ø16x64mm

- Operating Voltage 24V DC
- Laser Class 1
- Uniform line thickness
- Fixed focus
- Glas lenses anti reflex coated

Size	Ø16x64mm
Beam Shape	Cross
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (500mm)
Output Aperture	6.8mm
Verticality	< ±0.5°





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Line Thickness	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Max. Mod. Frequency	Lifetime
		nm	mW				V DC	mA			mrad	mm	kHz	h
70121438	CB635-2-24(16X64)75DEG-F500-PL	635	2	1	75°	<0.3mm@0.5m	24	20	✓	isolated	B - 0.3	100	—	10000

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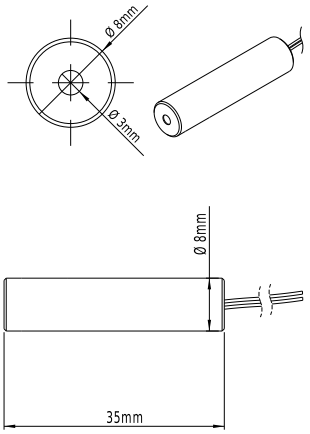
Direkt emittierende grüne Laser | Direct Green Laser

Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Focus	Size	Size of Laserdot	Operating Voltage	Operating Current	Potential of Housing	Divergence	Cable length	Lifetime	Page
		nm	mW		mrad		mm		V DC	mA		mrad	mm	h	
70119749	LC520-0.1-5-F(16X65)-QCW	520	0.1	1	C - 0.4	adjustable	Ø16x65		5	43	isolated	C - 0.4	100	6000	168
70132212	DC520-0.4-24(12X45)QCW-C10000	520	0.4	1	C - 0.4	collimated	Ø12x45	<4mm@5m	24	5	isolated	C - 0.4	10000	6000	183
70129533	DC520-0.5-3(8X30)-F10000	520	0.5	2	0.4	fixed (10.0m)	Ø8x30	5mm@10m	3	50	isolated	0.4	127	10000	183
70124507	DA520-1-24(20X80)-QCW	520	1	2	A - 0.1	collimated	Ø20x80	<10mm@40m	24	50	isolated	A - 0.1	200	6000	170
70121025	DD520-1-24(12X40)-QCW	520	1	2	D - 0.5	collimated	Ø12x40	<8mm@10m	24	10		D - 0.5	100	6000	179
70127010	DB520-1-3-FA(14X45)-AP-QCW	520	1	2	B - 0.3	fixed (10.0m)	Ø14x45	<3..4mm@10m	3	100	isolated	B - 0.3	200	6000	184
70122343	MDD520-1-3(22X105)-S-AP-QCW	520	1	2	D - 0.5	collimated	Ø22x105	<4mm@5m	3	80	VDD(+)	D - 0.5		6000	182
70118285	DG520-1-5(8X35)-QCW	520	1	2	G - 0.8	collimated	Ø8x35	<8mm@10m	5	40		G - 0.8	100	6000	181
70118384	DF520-1-5(3.8X9.15)-QCW	520	1	2	F - 0.7	collimated	Ø3.8x9.15	<12mm@10m	5	30		F - 0.7	100	6000	181
70124637	LE520-1-3(14X45)90DEG-F150-QCW	520	1	1M	E - 0.6	fixed (150mm)	Ø14x45		3	200	isolated	E - 0.6	100	5000	180
70125740	DI520-1-3(12X47)	520	1	2	I - 1.5	collimated	Ø12x47	<8mm@10m	3	120	isolated	I - 1.5	150	10000	175
70124477	DD520-1-12(12X40)-QCW	520	1	2	D - 0.5	collimated	Ø12x40	6mm@10m	12	10		D - 0.5	3000	6000	178
70124668	CI520-4-3(12X47)	520	4	1	I - 1.5	collimated	Ø12x47		3	120	isolated	I - 1.5	150	10000	174
70124651	LI520-4-3(12X47)	520	4	1	I - 1.5	collimated	Ø12x47		3	120	isolated	I - 1.5	150	10000	180
70121056	DG520-5-24(6X19)	520	5	3R	G - 0.8	collimated	Ø6x19	<8mm@10m	24	150		G - 0.8	100	6000	178
70118421	DG520-5-5(6X19)-QCW	520	5	3R	G - 0.8	collimated	Ø6x19	<8mm@10m	5	150		G - 0.8	100	6000	177
70122497	LD520-5-3(12X60)-QCW-F1300	520	5	1	D - 0.5	fixed (1300mm)	Ø12x60		3	100	isolated	D - 0.5	100	6000	176
70118698	DA520-5-3(12X55)-QCW	520	5	3R	A - 0.1	adjustable	Ø12x55	adjustable	3	50	isolated	A - 0.1	100	6000	175
70132564	DD520-5-3-F(16X62)-QCW-DOE	520	5	3R	D - 0.5	adjustable	Ø16x62	adjustable	3	180	isolated	D - 0.5	100	6000	174
70118445	DG520-5-5(8X35)-QCW	520	5	3R	G - 0.8	collimated	Ø8x35	<8mm@10m	5	150	isolated	G - 0.8	100	6000	168
70118452	DG520-5-5(6.2X20.5)-QCW	520	5	3R	G - 0.8	collimated	Ø6.2x20.5	<8mm@10m	5	60		G - 0.8	100	6000	184
70123692	DD520-5-5(12X35)-QCW-DOE	520	5	3R	D - 0.5	collimated	Ø12x35	<8mm@10m	5	200	isolated	D - 0.5	100	6000	173
70118476	LC520-5-5-F(16X65)-QCW	520	5	1	C - 0.4	adjustable	Ø16x65		5	58	isolated	C - 0.4	100	6000	168
70132496	LC520-5-5-F(16X65)-QCW-C2000	520	5	1	C - 0.4	adjustable	Ø16x65		5	58	isolated	C - 0.4	2000	6000	168
70118308	DF520-10-5(8X35)	520	10	3B	F - 0.7	collimated	Ø8x35	<8mm@10m	5	100	VDD(+)	F - 0.7	100	6000	168
70122107	DA520-10-5(20X80)-POTI	520	10	3B	A - 0.1	collimated	Ø20x80	<10mm@100m	5	375	isolated	A - 0.1	100	6000	170
70121001	DF520-10-24(12X40)	520	10	3B	F - 0.7	collimated	Ø12x40	<8mm@10m	24	100	VDD(+)	F - 0.7	100	6000	170
70126006	MLE520-10-4.5(15X34)	520	10	1M	E - 0.6	collimated	Ø15x34		4.5	150	isolated	E - 0.6	150	6000	179
70128826	LH520-10-24(20X80)-PL-C3000	520	10	1M	H - 1.0	fixed (3000mm)	Ø20x80		24	55	isolated	H - 1.0	3000	10000	171
70121209	LD520-10-24(16X80)-C1000-QCW	520	10	1	D - 0.5	fixed (5.0m)	Ø16x80		24	50	isolated	D - 0.5	1000	10000	176
70120660	LH520-10-24(20X80)-PL-C3000-WP	520	10	1M	H - 1.0	fixed (3000mm)	Ø20x80		24	55	isolated	H - 1.0	3000	10000	171
70122985	LH520-10-24(20X80)-PL-F500-WP	520	10	1M	H - 1.0	fixed (500mm)	Ø20x80		24	45	isolated	H - 1.0	3000	10000	172
70125597	E520-12-5-20(24X96)	520	12	3R	E - 0.6	fixed (10.0m)	Ø24x96	22mm@10m	5	160		E - 0.6	100	5000	177
70121018	DG520-12-24(12X40)	520	12	3B	G - 0.8	collimated	Ø12x40	<8mm@10m	24	50	isolated	G - 0.8	100	6000	170
70118469	DG520-12-5(8X35)-QCW	520	12	3B	G - 0.8	collimated	Ø8x35	<8mm@10m	5	180	isolated	G - 0.8	100	6000	168
70121032	LC520-15-24-F(16X65)-QCW	520	15	2M	C - 0.4	adjustable	Ø16x65		24	50	isolated	C - 0.4	100	6000	171
70121711	LD520-15-24(20X135)-M12	520	15	2M	D - 0.5	adjustable	Ø20x135		24	75	isolated	D - 0.5		10000	169
70125023	LC520-16-3-F(14X55)30-QCW	520	16	2M	C - 0.4	adjustable	Ø14x55		3	40	isolated	C - 0.4	100	5000	182
70118483	LC520-20-5-F(16X65)-QCW	520	20	2M	C - 0.4	adjustable	Ø16x65		5	150	isolated	C - 0.4	100	6000	171
70121728	LD520-30-24(20X135)-M12	520	30	2M	D - 0.5	adjustable	Ø20x135		24	100	isolated	D - 0.5		10000	169
70120622	LE520-30-24(40X210)	520	30	2M	E - 0.6	fixed (7.0m)	Ø40x210		24	100	isolated	E - 0.6	1750	5000	169
70118520	LE520-30-230(40X210)	520	30	2M	E - 0.6	fixed (7.0m)	Ø40x210		230	10	isolated	E - 0.6	1750	5000	172
70120752	CE520-30-230(40X210)	520	30	2M	E - 0.6	fixed (7.0m)	Ø40x210		230	10	isolated	E - 0.6	1750	6000	173
70121797	LE520-45-230(40X210)	520	45	2M	E - 0.6	fixed (7.0m)	Ø40x210		230	10	isolated	E - 0.6	1750	5000	172
70121773	LE520-45-24(40X210)	520	45	2M	E - 0.6	fixed (7.0m)	Ø40x210		24	100	isolated	E - 0.6	1750	5000	169

Direct Green Laser, Ø8x35mm

- Operating Voltage 5V DC
- Compact size
- High Power
- Fixed focus

Size	Ø8x35mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Focus	collimated
Output Aperture	3mm

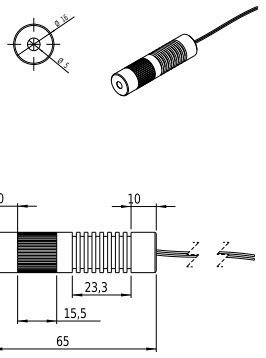


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Max. Mod. Frequency	Stability
		nm	mW		mrad		V DC	mA			mrad	mm	h	kHz	
70118445	DG520-5-5(8X35)-QCW	520	5	3R	G - 0.8	<8mm@10m	5	150		isolated	G - 0.8	100	6000	—	+/- 3% @ -10-50°C
70118308	DF520-10-5(8X35)	520	10	3B	F - 0.7	<8mm@10m	5	100		VDD(+)	F - 0.7	100	6000	—	+/- 3% @ -10-50°C
70118469	DG520-12-5(8X35)-QCW	520	12	3B	G - 0.8	<8mm@10m	5	180		isolated	G - 0.8	100	6000	—	+/- 3% @ -10-50°C

Direct Green Laser, Ø16x65mm

- Operating Voltage 5V DC
- Compact size
- Laser Class 1
- High Power
- Fixed focus

Size	Ø16x65mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	5mm
PCB	—



Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Max. Mod. Frequency	Stability
		nm	mW		mrad		V DC	mA			mrad	mm	h	kHz	
70119749	LC520-0.1-5-F(16X65)-QCW	520	0.1	1	C - 0.4		5	43		isolated	C - 0.4	100	6000	—	+/- 3% @ -10-50°C
70118476	LC520-5-5-F(16X65)-QCW	520	5	1	C - 0.4		5	58		isolated	C - 0.4	100	6000	—	+/- 3% @ -10-50°C
70132496	LC520-5-5-F(16X65)-QCW-C2000	520	5	1	C - 0.4		5	58		isolated	C - 0.4	2000	6000	—	+/- 3% @ -10-50°C

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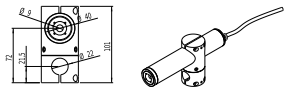
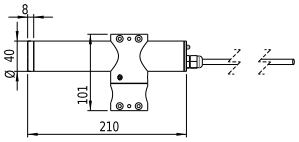
Direct Green Laser, Ø40x210mm

- Operating Voltage 24V DC
- Glas lenses anti reflex coated
- Laser Class 2M
- High power
- Uniform line thickness

Size	Ø40x210mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (7.0m)
Output Aperture	8mm



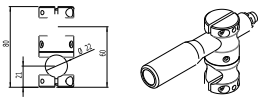


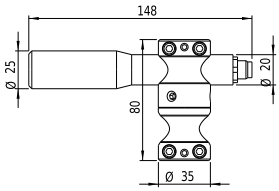
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Max. Mod. Frequency	Stability
		nm	mW		mrad		V DC	mA			mrad	mm	h	kHz	
70120622	LE520-30-24(40X210)	520	30	2M	E - 0.6		24	100		isolated	E - 0.6	1750	5000	—	+/- 5% @ -10-45°C
70121773	LE520-45-24(40X210)	520	45	2M	E - 0.6		24	100		isolated	E - 0.6	1750	5000	—	+/- 5% @ -10-45°C

Direct Green Laser, Ø20x135mm

- Stainless steel body for industrial applications
- Protection Class (IP64)
- Adjustable line thickness
- M12 industrial connector
- Protection lens

Size	Ø20x135mm
Beam Shape	Line
Material	Stainless Steel
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	16mm
Connector	CON-M12



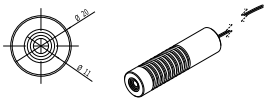


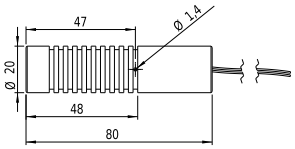
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Max. Mod. Frequency	Stability
		nm	mW		mrad		V DC	mA			mrad	mm	h	kHz	
70121711	LD520-15-24(20X135)-M12	520	15	2M	D - 0.5		24	75	✓	isolated	D - 0.5		10000	—	+/- 3% @ -10-50°C
70121728	LD520-30-24(20X135)-M12	520	30	2M	D - 0.5		24	100	✓	isolated	D - 0.5		10000	—	+/- 3% @ -10-50°C

Direct Green Laser, Ø20x80mm

- Compact size

Size	Ø20x80mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Focus	collimated
Output Aperture	8mm



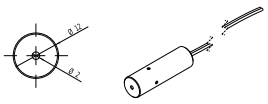


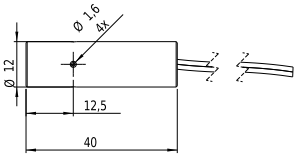
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Size of Laserdot	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Lifetime h	Max. Mod. Frequency kHz	Stability
70124507	DA520-1-24(20X80)-QCW	520	1	2	A - 0.1	<10mm@40m	24	50		isolated	A - 0.1	200	6000	—	
70122107	DA520-10-5(20X80)-POTI	520	10	3B	A - 0.1	<10mm@100m	5	375		isolated	A - 0.1	100	6000	—	

Direct Green Laser, Ø12x40mm

- Operating Voltage 24V DC
- Compact size
- Laser Class 3B
- High Power
- Fixed focus

Size	Ø12x40mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Focus	collimated
Output Aperture	3mm





Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Size of Laserdot	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Lifetime h	Max. Mod. Frequency kHz	Stability
70121001	DF520-10-24(12X40)	520	10	3B	F - 0.7	<8mm@10m	24	100		VDD(+)	F - 0.7	100	6000	—	+/- 3% @ -10-50°C
70121018	DG520-12-24(12X40)	520	12	3B	G - 0.8	<8mm@10m	24	50		isolated	G - 0.8	100	6000	—	+/- 3% @ -10-50°C

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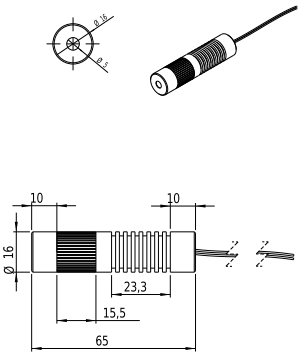
Direct Green Laser, Ø16x65mm

- Compact size
- Laser Class 2M
- High Power

Size	Ø16x65mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	5mm

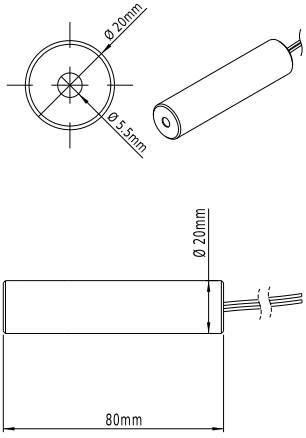


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Max. Mod. Frequency	Stability
		nm	mW		mrad		V DC	mA			mrad	mm	h	kHz	
70121032	LC520-15-24-F(16X65)-QCW	520	15	2M	C - 0.4		24	50		isolated	C - 0.4	100	6000	—	+/- 3% @ -10-50°C
70118483	LC520-20-5-F(16X65)-QCW	520	20	2M	C - 0.4		5	150		isolated	C - 0.4	100	6000	—	+/- 3% @ -10-50°C

Direct Green Laser, Ø20x80mm

- Operating Voltage 24V DC
- Laser Class 1M
- Uniform line thickness
- High Power
- Small laser head

Size	Ø20x80mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (3000mm)
Output Aperture	5.5mm

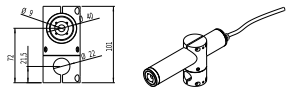


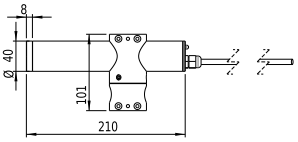
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Max. Mod. Frequency	Stability
		nm	mW		mrad		V DC	mA			mrad	mm	h	kHz	
70128826	LH520-10-24(20X80)-PL-C3000	520	10	1M	H - 1.0		24	55	✓	isolated	H - 1.0	3000	10000	—	
70120660	LH520-10-24(20X80)-PL-C3000-WP	520	10	1M	H - 1.0		24	55	✓	isolated	H - 1.0	3000	10000	—	

Direct Green Laser, Ø40x210mm

- Operating Voltage 230V AC
- Glas lenses anti reflex coated
- Laser Class 2M
- High power
- Uniform line thickness

Size	Ø40x210mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (7.0m)
Output Aperture	8mm
Connector	AC CEE 7/7



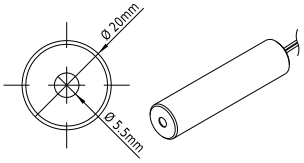


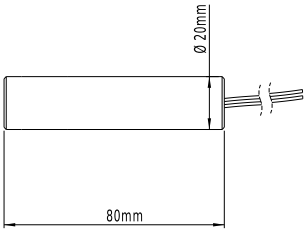
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Max. Mod. Frequency	Stability
		nm	mW		mrad		V DC	mA			mrad	mm	h	kHz	
70118520	LE520-30-230(40X210)	520	30	2M	E - 0.6		230	10		isolated	E - 0.6	1750	5000	—	+/- 5% @ -10-45°C
70121797	LE520-45-230(40X210)	520	45	2M	E - 0.6		230	10		isolated	E - 0.6	1750	5000	—	+/- 5% @ -10-45°C

Direct Green Laser, Ø20x80mm

- Operating Voltage 24V DC
- Laser Class 1M
- Uniform line thickness
- High Power
- Small laser head

Size	Ø20x80mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (500mm)
Output Aperture	5.5mm





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Max. Mod. Frequency	Stability
		nm	mW		mrad		V DC	mA			mrad	mm	h	kHz	
70122985	LH520-10-24(20X80)-PL-F500-WP	520	10	1M	H - 1.0		24	45	✓	isolated	H - 1.0	3000	10000	—	

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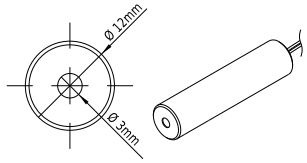
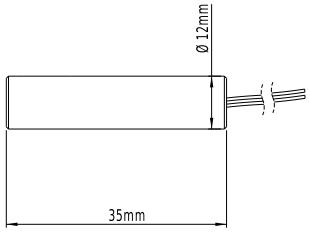
Direct Green Laser, Ø12x35mm

- For 8mm DOE
- Low Power consumption
- Direct green 520nm

Size	Ø12x35mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Focus	collimated
Output Aperture	3mm
PCB	✓
PCB size	22x12x2.4mm



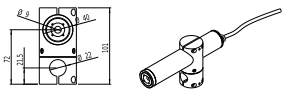


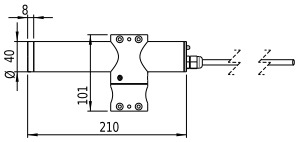
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Max. Mod. Frequency	Stability
		nm	mW		mrad		V DC	mA			mrad	mm	h	kHz	
70123692	DD520-5-5(12X35)-QCW-DOE	520	5	3R	D - 0.5	<8mm@10m	5	200		isolated	D - 0.5	100	6000	—	+/- 3% @ -10-50°C

Direct Green Laser, Ø40x210mm

- Operating Voltage 230V AC
- Glas lenses anti reflex coated
- Laser Class 2M
- High power
- Uniform line thickness

Size	Ø40x210mm
Beam Shape	Cross
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (7.0m)
Output Aperture	8mm
Connector	AC CEE 7/7



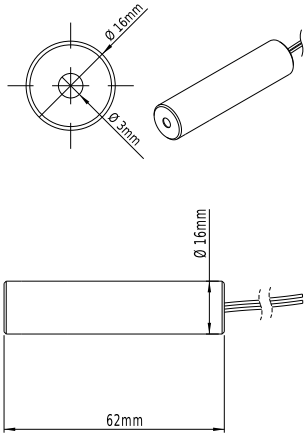


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Max. Mod. Frequency	Stability
		nm	mW		mrad		V DC	mA			mrad	mm	h	kHz	
70120752	CE520-30-230(40X210)	520	30	2M	E - 0.6		230	10		isolated	E - 0.6	1750	6000	—	+/- 5% @ -10-45°C

Direct Green Laser, Ø16x62mm

- For 8mm DOE
- Low Power consumption
- Direct green 520nm

Size	Ø16x62mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	3mm
PCB	—

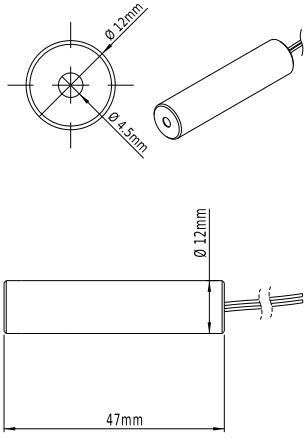


Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Size of Laserdot	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Lifetime h	Max. Mod. Frequency kHz	Stability
70132564	DD520-5-3-F(16X62)-QCW-DOE	520	5	3R	D - 0.5	adjustable	3	180		isolated	D - 0.5	100	6000	—	+/- 3% @ -10-50°C

Direct Green Laser, Ø12x47mm

- Low Power consumption
- Direct green 520nm

Size	Ø12x47mm
Beam Shape	Cross
Material	aluminium
Optics	glass lens AR coated
Focus	collimated
Output Aperture	4.5mm
PCB	—



Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Size of Laserdot	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Lifetime h	Max. Mod. Frequency kHz	Stability
70124668	CI520-4-3(12X47)	520	4	1	I - 1.5		3	120		isolated	I - 1.5	150	10000	—	

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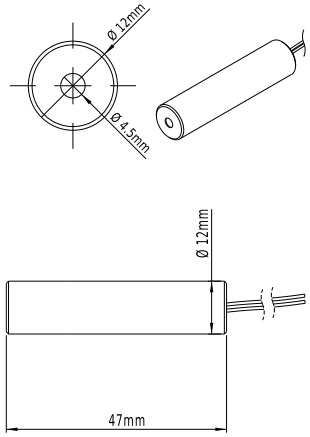
Direct Green Laser, Ø12x47mm

- Low Power consumption
- Direct green 520nm

Size	Ø12x47mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Focus	collimated
Output Aperture	4.5mm
PCB	—

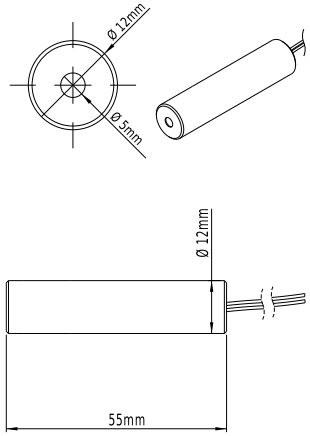


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Max. Mod. Frequency	Stability
		nm	mW		mrad		V DC	mA			mrad	mm	h	kHz	
70125740	DI520-1-3(12X47)	520	1	2	I - 1.5	<8mm@10m	3	120		isolated	I - 1.5	150	10000	—	

Direct Green Laser, Ø12x55mm

- Isolated housing
- Laser Class 3R
- Compact size
- Anti-reflex coating

Size	Ø12x55mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	5mm

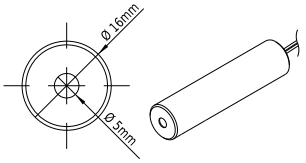


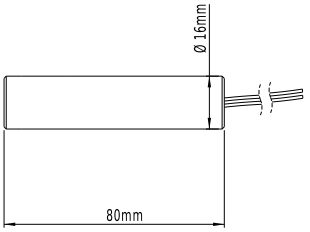
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Max. Mod. Frequency	Stability
		nm	mW		mrad		V DC	mA			mrad	mm	h	kHz	
70118698	DA520-5-3(12X55)-QCW	520	5	3R	A - 0.1	adjustable	3	50		isolated	A - 0.1	100	6000	—	

Direct Green Laser, Ø16x80mm

- Operating Voltage 24V DC
- Laser Class 1
- Compact size
- Glas lenses anti reflex coated
- Fixed focus

Size	Ø16x80mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (5.0m)
Output Aperture	5mm



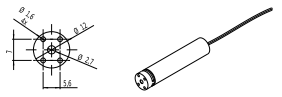


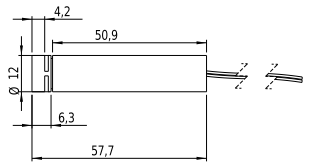
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Max. Mod. Frequency	Stability
		nm	mW		mrad		V DC	mA			mrad	mm	h	kHz	
70121209	LD520-10-24(16X80)-C1000-QCW	520	10	1	D - 0.5		24	50		isolated	D - 0.5	1000	10000	—	+/- 5% @ -10-45°C

Direct Green Laser, Ø12x60mm

- Operating Voltage 3V DC
- Laser Class 1
- Uniform illumination
- Fixed focus
- Fan angle 90°

Size	Ø12x60mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (1300mm)
Output Aperture	3mm





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Max. Mod. Frequency	Stability
		nm	mW		mrad		V DC	mA			mrad	mm	h	kHz	
70122497	LD520-5-3(12X60)-QCW-F1300	520	5	1	D - 0.5		3	100		isolated	D - 0.5	100	6000	—	+/- 3% @ -10-50°C

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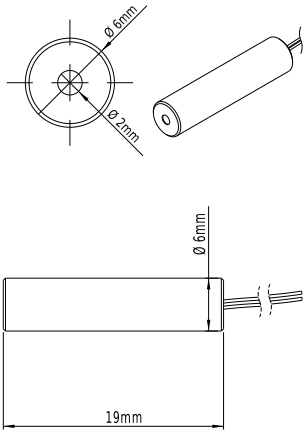
Direct Green Laser, Ø6x19mm

- Operating Voltage 5V DC
- Laser Class 2
- Compact size
- Modulated

Size	Ø6x19mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Focus	collimated
Output Aperture	2mm
PCB	✓
PCB size	Ø7x18mm

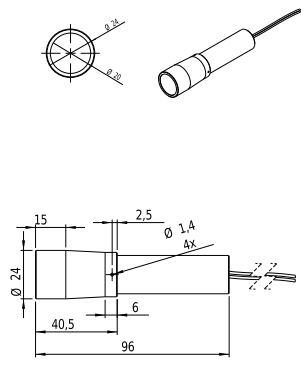


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Max. Mod. Frequency	Stability
		nm	mW		mrad		V DC	mA			mrad	mm	h	kHz	
70118421	DG520-5-5(6X19)-QCW	520	5	3R	G - 0.8	<8mm@10m	5	150			G - 0.8	100	6000	—	

Direct Green Laser, Ø24x96mm

- Machine Vision
- Medical engineering
- Particle measurement

Size	Ø24x96mm
Beam Shape	expander
Beam Diameter	20mm
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (10.0m)
Output Aperture	20mm

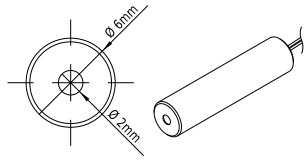


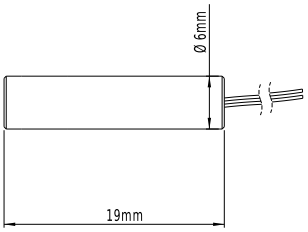
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Max. Mod. Frequency	Stability
		nm	mW		mrad		V DC	mA			mrad	mm	h	kHz	
70125597	E520-12-5-20(24X96)	520	12	3R	E - 0.6	22mm@10m	5	160			E - 0.6	100	5000	—	+/- 3% @ -10-50°C

Direct Green Laser, Ø6x19mm

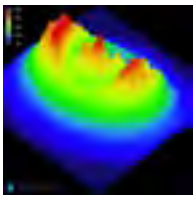
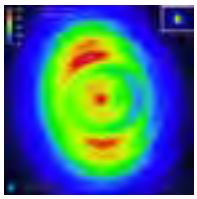
- Operating Voltage 5V DC
- Laser Class 2
- Compact size
- Modulated

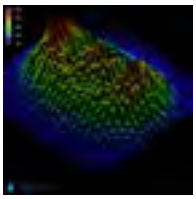
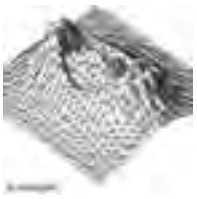
Size	Ø6x19mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Focus	collimated
Output Aperture	2mm
PCB	✓
PCB size	Ø6.5x23mm





Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Size of Laserdot	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Lifetime h	Max. Mod. Frequency kHz	Stability
70121056	DG520-5-24(6X19)	520	5	3R	G - 0.8	<8mm@10m	24	150			G - 0.8	100	6000	—	

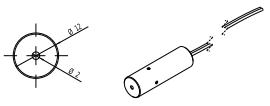



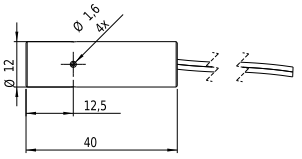



Direct Green Laser, Ø12x40mm

- Operating Voltage 12V DC
- Compact size
- Laser Class 2
- Fixed focus

Size	Ø12x40mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Focus	collimated
Output Aperture	3mm
PCB	✓





Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Size of Laserdot	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Lifetime h	Max. Mod. Frequency kHz	Stability
70124477	DD520-1-12(12X40)-QCW	520	1	2	D - 0.5	6mm@10m	12	10			D - 0.5	3000	6000	—	+/- 3% @ -10-50°C

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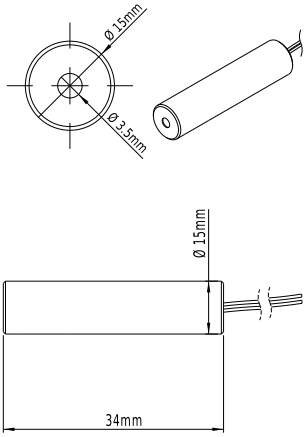
Direct Green Laser, Ø15x34mm

- Operating Voltage 4.5V DC
- Compact size
- Laser Class 1M
- High Power
- Fixed focus

Size	Ø15x34mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	collimated
Output Aperture	3.5mm

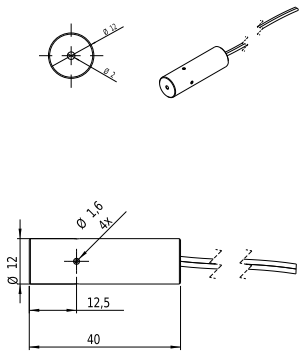


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Max. Mod. Frequency	Stability
		nm	mW		mrad		V DC	mA			mrad	mm	h	kHz	
70126006	MLE520-10-4.5(15X34)	520	10	1M	E - 0.6		4.5	150		isolated	E - 0.6	150	6000	—	+/- 3% @ -10-50°C

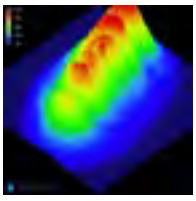
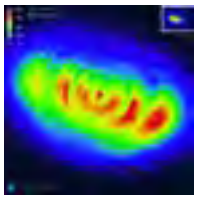
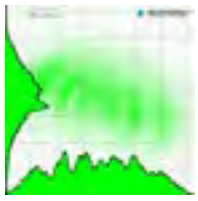
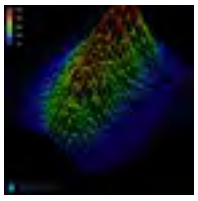
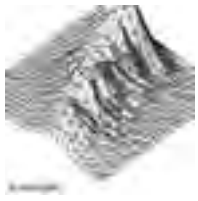
Direct Green Laser, Ø12x40mm

- Operating Voltage 24V DC
- Compact size
- Laser Class 2
- High Power
- Fixed focus

Size	Ø12x40mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Focus	collimated
Output Aperture	3mm
PCB	—



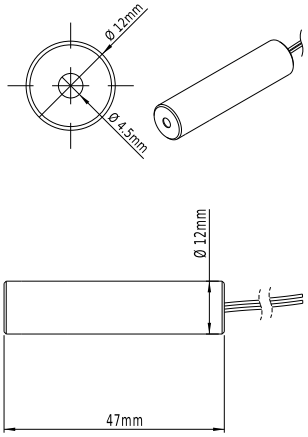
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Max. Mod. Frequency	Stability
		nm	mW		mrad		V DC	mA			mrad	mm	h	kHz	
70121025	DD520-1-24(12X40)-QCW	520	1	2	D - 0.5	<8mm@10m	24	10			D - 0.5	100	6000	—	+/- 3% @ -10-50°C

Direct Green Laser, Ø12x47mm

- Low Power consumption
- Direct green 520nm

Size	Ø12x47mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	collimated
Output Aperture	4.5mm
PCB	—

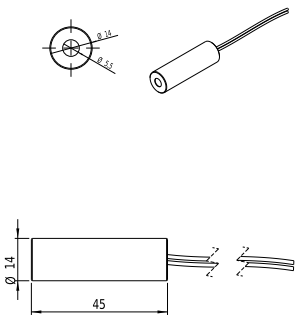


Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Size of Laserdot	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Lifetime h	Max. Mod. Frequency kHz	Stability
70124651	LI520-4-3(12X47)	520	4	1	I - 1.5		3	120		isolated	I - 1.5	150	10000	—	

Direct Green Laser, Ø14x45mm

- Blue Lasermodule
- Operating Voltage 3V DC
- Glas lenses anti reflex coated
- Laser Class 1M

Size	Ø14x45mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (150mm)
Output Aperture	5mm



Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Size of Laserdot	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Lifetime h	Max. Mod. Frequency kHz	Stability
70124637	LE520-1-3(14X45)90DEG-F150-QCW	520	1	1M	E - 0.6		3	200		isolated	E - 0.6	100	5000	—	

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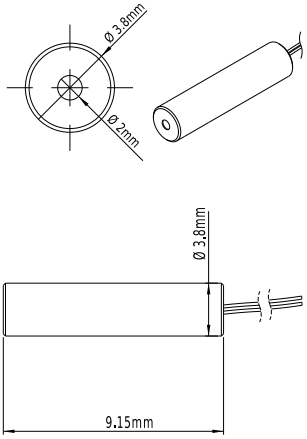
Direct Green Laser, Ø3.8x9.15mm

- Operating Voltage 5V DC
- Compact size
- Laser Class 2
- High Power
- Fixed focus

Size	Ø3.8x9.15mm
Beam Shape	Dot
Material	Brass
Optics	glass lens AR coated
Focus	collimated
Output Aperture	2mm
PCB	✓
PCB size	Ø7x18mm

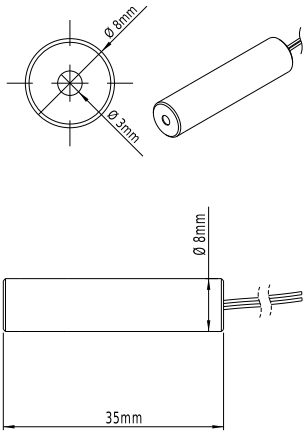


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Max. Mod. Frequency	Stability
		nm	mW		mrad		V DC	mA			mrad	mm	h	kHz	
70118384	DF520-1-5(3.8X9.15)-QCW	520	1	2	F - 0.7	<12mm@10m	5	30			F - 0.7	100	6000	—	+/- 3% @ -10-50°C

Direct Green Laser, Ø8x35mm

- Operating Voltage 5V DC
- Compact size
- Laser Class 2
- High Power
- Fixed focus

Size	Ø8x35mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Focus	collimated
Output Aperture	3mm
PCB	✓

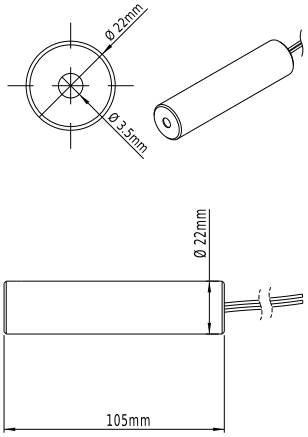


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Max. Mod. Frequency	Stability
		nm	mW		mrad		V DC	mA			mrad	mm	h	kHz	
70118285	DG520-1-5(8X35)-QCW	520	1	2	G - 0.8	<8mm@10m	5	40			G - 0.8	100	6000	—	+/- 3% @ -10-50°C

Direct Green Laser, Ø22x105mm

- Axial parallel
- With battery
- Glas lenses anti reflex coated
- Compact size
- Laser Class 2

Size	Ø22x105mm
Beam Shape	Dot
Beam Diameter	3mm
Material	aluminium
Optics	glass lens AR coated
Focus	collimated
Output Aperture	3.5mm
Battery	CR123A

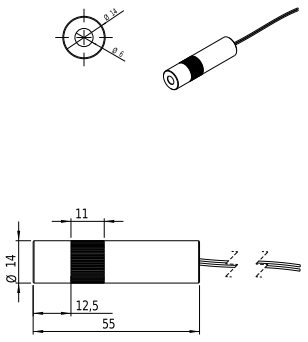


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Max. Mod. Frequency	Stability
		nm	mW		mrad		V DC	mA			mrad	mm	h	kHz	
70122343	MDD520-1-3(22X105)-S-AP-QCW	520	1	2	D - 0.5	<4mm@5m	3	80		VDD(+)	D - 0.5		6000	—	

Direct Green Laser, Ø14x55mm

- Operating Voltage 3V DC
- Laser Class 2M
- Adjustable focus
- Low power consumption
- Compact size

Size	Ø14x55mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	4mm



Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Max. Mod. Frequency	Stability
		nm	mW		mrad		V DC	mA			mrad	mm	h	kHz	
70125023	LC520-16-3-F(14X55)30-QCW	520	16	2M	C - 0.4		3	40		isolated	C - 0.4	100	5000	—	

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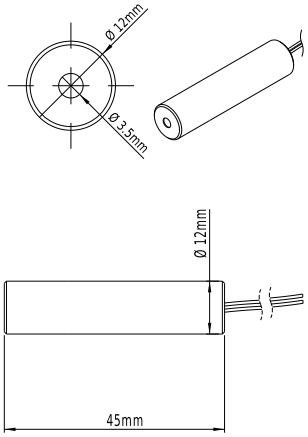
Direct Green Laser, Ø12x45mm

- Operating Voltage 24V DC
- Laser Class 1
- Low power consumption
- Compact size

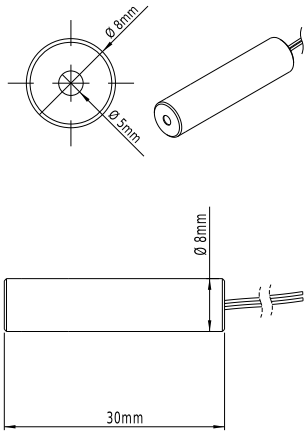
Size	Ø12x45mm
Beam Shape	Dot
Beam Diameter	3mm
Material	aluminium
Optics	glass lens AR coated
Focus	collimated
Output Aperture	3.5mm



Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Max. Mod. Frequency	Stability
		nm	mW		mrad		V DC	mA			mrad	mm	h	kHz	
70132212	DC520-0.4-24(12X45)QCW-C10000	520	0.4	1	C - 0.4	<4mm@5m	24	5	—	isolated	C - 0.4	10000	6000	—	

Direct Green Laser, Ø8x30mm

Size	Ø8x30mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (10.0m)
Output Aperture	5mm

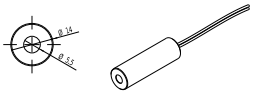


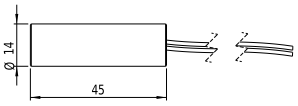
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Size of Laserdot	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Max. Mod. Frequency	Stability
		nm	mW		mrad		V DC	mA			mrad	mm	h	kHz	
70129533	DC520-0.5-3(8X30)-F10000	520	0.5	2	0.4	5mm@10m	3	50		isolated	0.4	127	10000	—	

Direct Green Laser, Ø14x45mm

- Operating Voltage 3V DC
- Image processing
- Small laser head
- Laser Class 2
- Axial parallel

Size	Ø14x45mm
Beam Shape	Dot
Beam Diameter	5mm
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (10.0m)
Output Aperture	5mm



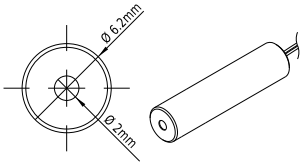


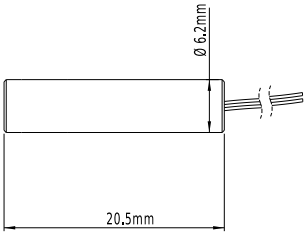
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Size of Laserdot	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Lifetime h	Max. Mod. Frequency kHz	Stability
70127010	DB520-1-3-FA(14X45)-AP-QCW	520	1	2	B - 0.3	<3..4mm@10m	3	100		isolated	B - 0.3	200	6000	—	

Direct Green Laser, Ø6.2x20.5mm

- Operating Voltage 5V DC
- Laser Class 2
- Compact size
- Modulated

Size	Ø6.2x20.5mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Focus	collimated
Output Aperture	2mm
PCB	✓
PCB size	Ø7x18mm





Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Size of Laserdot	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Lifetime h	Max. Mod. Frequency kHz	Stability
70118452	DG520-5-5(6.2X20.5)-QCW	520	5	3R	G - 0.8	<8mm@10m	5	60			G - 0.8	100	6000	—	

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Modulierte Laser | Modulated Laser

Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Focus	Size	Operating Voltage	Operating Current	Max. Mod. Frequency	Protection Lens	Potential of Housing	Divergence	Cable length	Page
		nm	mW		mrad		mm	V DC	mA	kHz			mrad	mm	
70116366	MDD405-1-5(12.7X40)	405	1	2	D - 0.5	adjustable	Ø12.7x40	5	50	100		isolated	D - 0.5	150	212
70100884	MLD532-1-5(20X80)	532	1	1	D - 0.5	fixed (1000mm)	Ø20x80	5	125	10		isolated	D - 0.5	100	205
70116731	MD532-1-5(20X80)	532	1	2	D - 0.5	collimated	Ø20x80	5	150	10		isolated	D - 0.5	100	190
70117257	MLD532-3-5(20X80)20DEG	532	3	1	D - 0.5	fixed (3000mm)	Ø20x80	5	120	10		isolated	D - 0.5	100	187
70114904	MD532-5-5-F(22X80)	532	5	3R	D - 0.5	adjustable	Ø22x80	5	250	1		isolated	D - 0.5	100	196
70101164	MLD532-5-5(20X80)	532	5	1	D - 0.5	fixed (3000mm)	Ø20x80	5	250	10		isolated	D - 0.5	100	187
70116854	MLD532-5-5(20X80)30DEG	532	5	1M	D - 0.5	fixed (3000mm)	Ø20x80	5	150	10		isolated	D - 0.5	100	187
70101270	MLD532-10-5(20X80)	532	10	2	D - 0.5	fixed (3000mm)	Ø20x80	5	150	10		isolated	D - 0.5	100	187
70114980	MD532-15-5(20X80)	532	15	3B	D - 0.5	collimated	Ø20x80	5	250	10		isolated	D - 0.5	100	190
70101294	MLD532-15-5(20X80)	532	15	2M	D - 0.5	fixed (5.0m)	Ø20x80	5	350	10		isolated	D - 0.5	100	194
70101362	MLD532-20-5(20X80)	532	20	2M	D - 0.5	fixed (7.0m)	Ø20x80	5	450	10		isolated	D - 0.5	100	203
70101416	MLD532-25-5(20X80)	532	25	2M	D - 0.5	fixed (10.0m)	Ø20x80	5	450	10		isolated	D - 0.5	100	206
70122527	AMLD635-1-5(14X50)-5DEG	635	0.9	2	D - 0.5	fixed (2000mm)	Ø14x50	5	35	1	—	isolated	D - 0.5	200	206
70113839	MDA635-1-5-F(12X60)	635	1	2	A - 0.1	adjustable	Ø12x60	5	40	200		isolated	A - 0.1	100	200
70116359	MDD635-1-5(12.7X34)	635	1	2	D - 0.5	collimated	Ø12.7x34	5	30	100		isolated	D - 0.5	150	189
70116762	MCB635-2-3.3(16X45)	635	2	1	B - 0.3	fixed (685mm)	Ø16x45	3.3	40	50	✓	isolated	B - 0.3	400	195
70100983	MLD635-2.2-5(14X45)	635	2.2	1	D - 0.5	fixed (2000mm)	Ø14x45	5	45	200			D - 0.5	100	208
70100587	MLB635-2.5-5(16X58)	635	2.5	1	B - 0.3	fixed (3000mm)	Ø16x58	5	50	50		isolated	B - 0.3	100	190
70100631	MB635-3-5(16X45)	635	3	3R	B - 0.3	adjustable	Ø16x45	5	25	200		isolated	B - 0.3	100	213
70101751	MH635-4-5(14X45)	635	4	3R	H - 1.0	adjustable	Ø14x45	5	45	200		isolated	H - 1.0	100	189
70101775	MLH635-4-5(16X45)	635	4	1	H - 1.0	fixed (3000mm)	Ø16x45	5	35	200		isolated	H - 1.0	100	192
70108958	MDI635-5-5(12X34)	635	5	3R	I - 1.5	adjustable	Ø12x34	5	50	200		isolated	I - 1.5	100	188
70110548	MLC635-5-5-F(14X45)	635	5	1	C - 0.4	adjustable	Ø14x45	5	65	200		isolated	C - 0.4	100	188
70125948	MLE635-15-5(14X55)40DEG-F1000	635	15	2	E - 0.6	fixed (1000mm)	Ø14x55	5	170	100		isolated	E - 0.6	500	201
70110319	MI650-1-5(8X21)-F700-AP	650	1	2	I - 1.5	fixed (700mm)	Ø8x21	5	20	200		isolated	I - 1.5	100	209
70108583	MI650-1-5(8X21)-AP	650	1	2	I - 1.5	collimated	Ø8x21	5	25	200			I - 1.5	100	199
70122350	MD650-1-5(12X34)-F10000	650	1	2	D - 0.5	collimated	Ø12x34	5	20	100		isolated	D - 0.5	100	212
70104905	MD650-1-5(12X34)	650	1	2	D - 0.5	adjustable	Ø12x34	5	22	100		isolated	D - 0.5	100	188
70120905	MI650-1-5(8X21)-F70	650	1	2	I - 1.5	fixed (7mm)	Ø8x21	5	19	100		isolated	I - 1.5	100	192
70103250	MI650-1-5(8X21)	650	1	2	I - 1.5	collimated	Ø8x21	5	20	100		isolated	I - 1.5	100	193
70100518	CB650-1.2-3(16X45)-F100	650	1.2	1	B - 0.3	fixed (100mm)	Ø16x45	3	25	50		isolated	B - 0.3	100	198
70116786	MCB650-5-3.3(16X61)-PL	650	3	1	B - 0.3	fixed (685mm)	Ø16x61	3.3	40	50	✓	isolated	B - 0.3	400	202
70100655	MB650-3-5(16X50)	650	3	3R	B - 0.3	adjustable	Ø16x50	5	25	500		isolated	B - 0.3	100	209
70101539	ME650-3-5(16X50)	650	3	3R	E - 0.6	adjustable	Ø16x50	5	25	500			E - 0.6	100	197
70109603	MD650-3-5(12X34)	650	3	3R	D - 0.5	adjustable	Ø12x34	5	25	500		VDD(+)	D - 0.5	100	188
70102802	MLB650-3.5-5(16X60)10DEG	650	3.5	2M	B - 0.3	fixed (3000mm)	Ø16x60	5	30	50	✓	isolated	B - 0.3	700	201
70101812	MH650-4-5(14X45)	650	4	3R	H - 1.0	adjustable	Ø14x45	5	25	500		isolated	H - 1.0	100	189
70100662	MLB650-5-5(16X63)	650	5	1	B - 0.3	fixed (3000mm)	Ø16x63	5	30	200		isolated	B - 0.3	100	213
70112924	AMH650-5-5(14X45)	650	5	3R	H - 1.0	adjustable	Ø14x45	5	30	50		isolated	H - 1.0	100	189
70124491	MCB650-5-24(16X81)45-PL	650	5	1	B - 0.3	fixed (5.0m)	Ø16x81	24	10	100	✓	isolated	B - 0.3	400	210
70115048	MI650-5-5(10X21)	650	5	3R	D - 0.5	collimated	Ø10x21	5	25	500		isolated	D - 0.5	100	211
70110531	MLC650-5-5-F(14X45)	650	5	1	C - 0.4	adjustable	Ø14x45	5	30	200		VDD(+)	C - 0.4	100	188
70106787	AMH650-10-5(14X45)	650	10	3B	H - 1.0	adjustable	Ø14x45	5	50	10		isolated	H - 1.0	100	199
70101973	MH650-16-5(22X65)	650	16	3B	H - 1.0	adjustable	Ø22x65	5	120	200		isolated	H - 1.0	100	187
70101935	MH650-16-5(14X45)	650	16	3B	H - 1.0	adjustable	Ø14x45	5	120	500		isolated	H - 1.0	100	196
70116847	MLH650-16-5(10X30)-F100	650	16	2	H - 1.0	fixed (100mm)	Ø10x30	5	60	200	—	isolated	H - 1.0	100	197
70101942	MLH650-16-5(16X45)	650	16	2	H - 1.0	fixed (3000mm)	Ø16x45	5	65	100		isolated	H - 1.0	100	191
70117219	MLH650-16-5(10X30)-60DEG-F150	650	16	2	H - 1.0	fixed (150mm)	Ø10x30	5	60	200	—	isolated	H - 1.0	100	198
70123616	MCB650-20-5(16X45)	650	20	1	B - 0.3	fixed (1500mm)	Ø16x45	5	80	20		isolated	B - 0.3	100	204
70110449	MLH650-24-5(16X45)-PL	650	24	2M	H - 1.0	fixed (3000mm)	Ø16x45	5	71	200	✓	isolated	H - 1.0	100	191
70101980	MH650-24-5(22X65)	650	24	3B	H - 1.0	adjustable	Ø22x65	5	100	200		isolated	H - 1.0	100	187
70110340	MLH650-24-5(16X58)-F400	650	24	2M	H - 1.0	fixed (400mm)	Ø16x58	5	110	200		isolated	H - 1.0	100	193
70101997	MLH650-24-5(16X58)	650	24	2M	H - 1.0	fixed (3000mm)	Ø16x58	5	120	200		isolated	H - 1.0	100	190
70102062	MH650-40-5(22X65)	650	40	3B	H - 1.0	adjustable	Ø22x65	5	90	200		isolated	H - 1.0	100	187
70116342	MDD658-1-5(12.7X34)	658	1	2	D - 0.5	collimated	Ø12.7x34	5	20	100		isolated	D - 0.5	150	189
70123982	MDC658-40-5(14X45)	658	40	3B	C - 0.4	collimated	Ø14x45	5	130	100		isolated	C - 0.4	250	202
70122220	MLB658-50-24(19X88)-PL	658	50	2M	B - 0.3	adjustable	Ø19x88	24	70	50	✓	isolated	B - 0.3	500	211
70126037	MLB658-50-24(19X95)-PL-CON	658	50	2M	B - 0.3	adjustable	Ø19x95	24	70	50	✓	isolated	B - 0.3	500	208
70121544	MEJ658-100-5(9.5X20)-NO-OPTICS	658	100	3R			Ø9.5x20	5	180	200	—	isolated		100	204

Modulierte Laser | Modulated Laser

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Focus	Size mm	Operating Voltage V DC	Operating Current mA	Max. Mod. Frequency kHz	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Page
70116335	MDD670-1-5(12.7X34)	670	1	2	D - 0.5	collimated	Ø12.7x34	5	30	100		isolated	D - 0.5	150	189
70100952	MD670-2-5(12X34)	670	2	3R	D - 0.5	adjustable	Ø12x34	5	50	200		isolated	D - 0.5	100	207
70100686	MB670-3-5(16X45)	670	3	3R	B - 0.3	adjustable	Ø16x45	5	30	200		isolated	B - 0.3	100	203
70110555	MLC670-5-5-F(14X45)	670	5	1	C - 0.4	adjustable	Ø14x45	5	35	200		isolated	C - 0.4	100	188
70109023	MH808-350-5(22X65)	808	350	3B	H - 1.0	adjustable	Ø22x65	5	500	20		isolated	H - 1.0	100	187
70119695	MDH808-600-5(45X100)	808	600	4	H - 1.0	adjustable	Ø45x100	5	900	1		VDD(+)	H - 1.0	500	210
70114034	MDH808-4000-5(60X110)-NT	808	4000	4	H - 1.0	adjustable	Ø60x110	5	5000	10			H - 1.0	115	207
70123906	MDI850-0.7-5(8X22)	850	0.7	1	I - 1.5	collimated	Ø8x22	5	15	10		VDD(+)	I - 1.5	100	205
70122756	MDI850-3-5(8X21)	850	3	3R	I - 1.5	collimated	Ø8x21	5	15	10		VDD(+)	I - 1.5	100	195
70120271	MDD850-4-3(12X55)-DOE	850	4	3R	D - 0.5	adjustable	Ø12x55	3	20	100		isolated	D - 0.5	100	200
70120288	MDD905-4-3(12X38)-DOE	905	4	3R	D - 0.5	adjustable	Ø12x38	3	20	100		isolated	D - 0.5	100	191
70122176	MDB980-0.4-5-FA(14X52)	980	0.4	1	B - 0.3	fixed (50.0m)	Ø14x52	5	12	50		isolated	B - 0.3	100	194
70120295	MDD980-4-3(12X38)-DOE	980	4	3R	D - 0.5	adjustable	Ø12x38	3	20	100		isolated	D - 0.5	100	191

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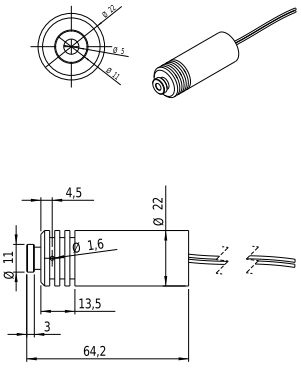
Modulated Laser, Ø22x65mm

Size	Ø22x65mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	5mm
Operating Voltage	5V DC

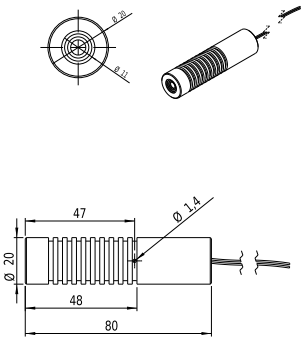


Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Operating Current mA	Max. Mod. Frequency kHz	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Lifetime h	Axial Divergence	Size of Laserdot	Line Thickness
70101973	MH650-16-5(22X65)	650	16	3B	H - 1.0	120	200		isolated	H - 1.0	100	5000		adjustable	
70101980	MH650-24-5(22X65)	650	24	3B	H - 1.0	100	200		isolated	H - 1.0	100	5000		adjustable	
70102062	MH650-40-5(22X65)	650	40	3B	H - 1.0	90	200		isolated	H - 1.0	100	5000		adjustable	
70109023	MH808-350-5(22X65)	808	350	3B	H - 1.0	500	20		isolated	H - 1.0	100	5000		adjustable	

Modulated Laser, Ø20x80mm

- Uniform illumination
- Uniform line thickness
- Modulated

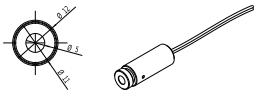
Size	Ø20x80mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (3000mm)
Output Aperture	5mm
Operating Voltage	5V DC
Stability	+/- 20% @ 15-30°C

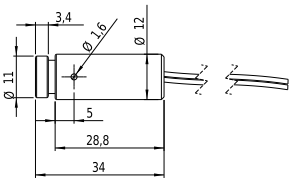


Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Operating Current mA	Max. Mod. Frequency kHz	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Lifetime h	Axial Divergence	Size of Laserdot	Line Thickness
70117257	MLD532-3-5(20X80)20DEG	532	3	1	D - 0.5	120	10		isolated	D - 0.5	100	5000			<2mm@3m
70101164	MLD532-5-5(20X80)	532	5	1	D - 0.5	250	10		isolated	D - 0.5	100	5000			<1.5mm@3m
70116854	MLD532-5-5(20X80)30DEG	532	5	1M	D - 0.5	150	10		isolated	D - 0.5	100	5000			<1.5mm@3m
70101270	MLD532-10-5(20X80)	532	10	2	D - 0.5	150	10		isolated	D - 0.5	100	5000			<1.5mm@3m

Modulated Laser, Ø12x34mm

Size	Ø12x34mm
Beam Shape	Dot
Material	Brass
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	5mm
Operating Voltage	5V DC



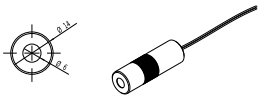


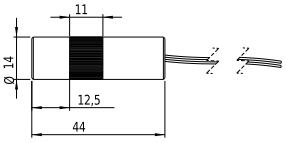
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Operating Current mA	Max. Mod. Frequency kHz	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Lifetime h	Axial Divergence	Size of Laserdot	Line Thickness
70108958	MDI635-5-5(12X34)	635	5	3R	I - 1.5	50	200		isolated	I - 1.5	100	10000		adjustable	
70104905	MD650-1-5(12X34)	650	1	2	D - 0.5	22	100		isolated	D - 0.5	100	5000		adjustable	
70109603	MD650-3-5(12X34)	650	3	3R	D - 0.5	25	500		VDD(+)	D - 0.5	100	5000		adjustable	

Modulated Laser, Ø14x45mm

- Laser Class 1
- Image processing
- Adjustable focus
- Modulated
- Uniform line thickness

Size	Ø14x45mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	4mm
Operating Voltage	5V DC





Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Operating Current mA	Max. Mod. Frequency kHz	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Lifetime h	Axial Divergence	Size of Laserdot	Line Thickness
70110548	MLC635-5-5-F(14X45)	635	5	1	C - 0.4	65	200		isolated	C - 0.4	100	5000			adjustable
70110531	MLC650-5-5-F(14X45)	650	5	1	C - 0.4	30	200		VDD(+)	C - 0.4	100	5000			adjustable
70110555	MLC670-5-5-F(14X45)	670	5	1	C - 0.4	35	200		isolated	C - 0.4	100	5000			adjustable

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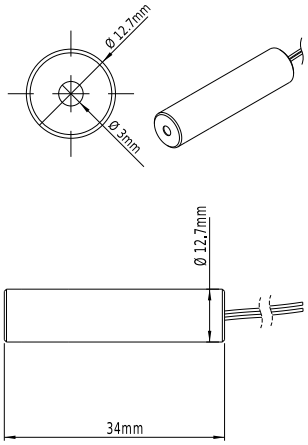
Modulated Laser, Ø12.7x34mm

- Operating Voltage 5V DC
- Modulated
- Laser Class 2
- Compact size
- Glas lenses anti reflex coated

Size	Ø12.7x34mm
Beam Shape	Dot
Beam Diameter	1.8mm
Material	Brass
Optics	glass lens AR coated
Focus	collimated
Output Aperture	3mm
Operating Voltage	5V DC

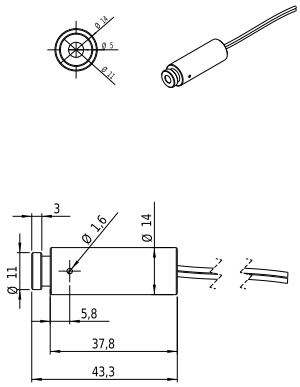


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Operating Current	Max. Mod. Frequency	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Axial Divergence	Size of Laserdot	Line Thickness
		nm	mW		mrad	mA	kHz			mrad	mm	h			
70116359	MDD635-1-5(12.7X34)	635	1	2	D - 0.5	30	100		isolated	D - 0.5	150	10000			
70116342	MDD658-1-5(12.7X34)	658	1	2	D - 0.5	20	100		isolated	D - 0.5	150	10000			
70116335	MDD670-1-5(12.7X34)	670	1	2	D - 0.5	30	100		isolated	D - 0.5	150	10000			

Modulated Laser, Ø14x45mm

- Modulated
- Adjustable focus
- Operating Voltage 5V DC

Size	Ø14x45mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	5mm
Operating Voltage	5V DC

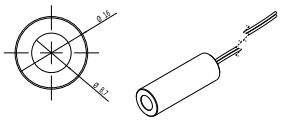


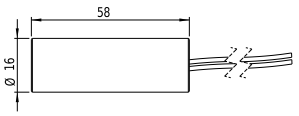
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Operating Current	Max. Mod. Frequency	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Axial Divergence	Size of Laserdot	Line Thickness
		nm	mW		mrad	mA	kHz			mrad	mm	h			
70101751	MH635-4-5(14X45)	635	4	3R	H - 1.0	45	200		isolated	H - 1.0	100	5000		adjustable	
70101812	MH650-4-5(14X45)	650	4	3R	H - 1.0	25	500		isolated	H - 1.0	100	5000		adjustable	
70112924	AMH650-5-5(14X45)	650	5	3R	H - 1.0	30	50		isolated	H - 1.0	100	5000		adjustable	

Modulated Laser, Ø16x58mm

- Modulated

Size	Ø16x58mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (3000mm)
Output Aperture	7mm
Operating Voltage	5V DC



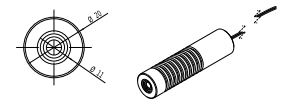


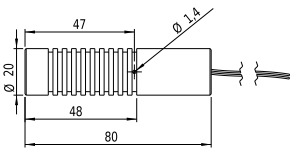
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Operating Current	Max. Mod. Frequency	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Axial Divergence	Size of Laserdot	Line Thickness
		nm	mW		mrad	mA	kHz			mrad	mm	h			
70100587	MLB635-2.5-5(16X58)	635	2.5	1	B - 0.3	50	50		isolated	B - 0.3	100	5000			<1.5mm@3m
70101997	MLH650-24-5(16X58)	650	24	2M	H - 1.0	120	200		isolated	H - 1.0	100	5000			<1mm@3m

Modulated Laser, Ø20x80mm

- Operating Voltage 5V DC
- Compact size
- Modulated
- Glas lenses anti reflex coated

Size	Ø20x80mm
Beam Shape	Dot
Beam Diameter	3mm
Material	aluminium
Optics	glass lens AR coated
Focus	collimated
Output Aperture	5mm
Operating Voltage	5V DC
Stability	+/- 20% @ 15-30°C





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Operating Current	Max. Mod. Frequency	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Axial Divergence	Size of Laserdot	Line Thickness
		nm	mW		mrad	mA	kHz			mrad	mm	h			
70116731	MD532-1-5(20X80)	532	1	2	D - 0.5	150	10		isolated	D - 0.5	100	5000		<3..5mm@10m	
70114980	MD532-15-5(20X80)	532	15	3B	D - 0.5	250	10		isolated	D - 0.5	100	5000		<3..5mm@10m	

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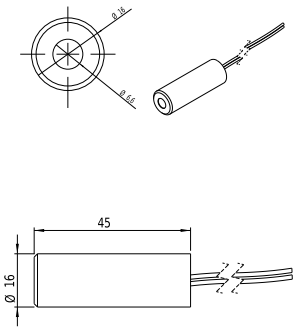
Modulated Laser, Ø16x45mm

- Operating Voltage 5V DC
- Modulated

Size	Ø16x45mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (3000mm)
Output Aperture	5.5mm
Operating Voltage	5V DC

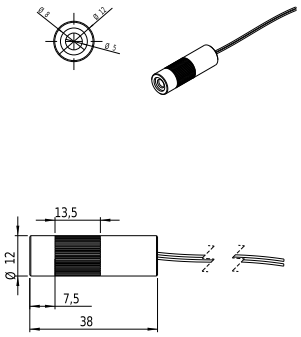


Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Operating Current mA	Max. Mod. Frequency kHz	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Lifetime h	Axial Divergence	Size of Laserdot	Line Thickness
70101942	MLH650-16-5(16X45)	650	16	2	H - 1.0	65	100		isolated	H - 1.0	100	5000			<1.5mm@3m
70110449	MLH650-24-5(16X45)-PL	650	24	2M	H - 1.0	71	200	✓	isolated	H - 1.0	100	5000			<1.5mm@3m

Modulated Laser, Ø12x38mm

- Adjustable focus
- DOE optic can be changed
- Compact size
- Glas lenses anti reflex coated
- Operating Voltage 3V DC

Size	Ø12x38mm
Beam Shape	DOE
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	5mm
Operating Voltage	3V DC

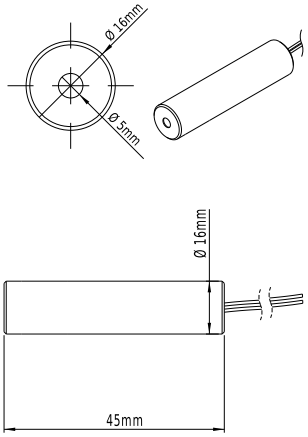


Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Operating Current mA	Max. Mod. Frequency kHz	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Lifetime h	Axial Divergence	Size of Laserdot	Line Thickness
70120288	MDD905-4-3(12X38)-DOE	905	4	3R	D - 0.5	20	100		isolated	D - 0.5	100	5000			
70120295	MDD980-4-3(12X38)-DOE	980	4	3R	D - 0.5	20	100		isolated	D - 0.5	100	5000			

Modulated Laser, Ø16x45mm

- Laser Class 1
- Operating Voltage 5V DC
- Compact size
- Fixed focus
- Image processing

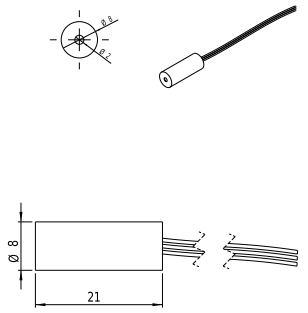
Size	Ø16x45mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (3000mm)
Output Aperture	5mm
Operating Voltage	5V DC



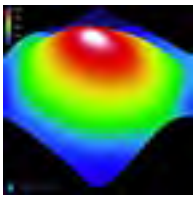
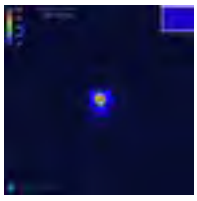
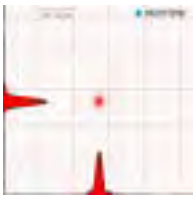
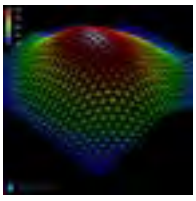
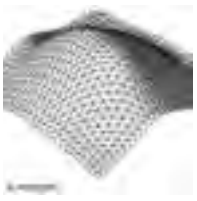
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Operating Current mA	Max. Mod. Frequency kHz	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Lifetime h	Axial Divergence	Size of Laserdot	Line Thickness
70101775	MLH635-4-5(16X45)	635	4	1	H - 1.0	35	200		isolated	H - 1.0	100	5000			<1.5mm@3m

Modulated Laser, Ø8x21mm

Size	Ø8x21mm
Beam Shape	Dot
Beam Diameter	2mm
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (7mm)
Output Aperture	2mm
Operating Voltage	5V DC



Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Operating Current mA	Max. Mod. Frequency kHz	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Lifetime h	Axial Divergence	Size of Laserdot	Line Thickness
70120905	MI650-1-5(8X21)-F70	650	1	2	I - 1.5	19	100		isolated	I - 1.5	100	5000		<0,8mm@0,07mm	

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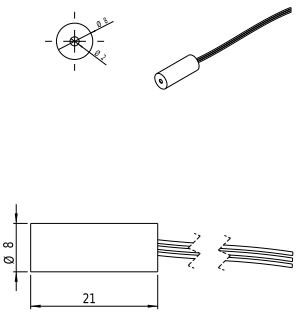
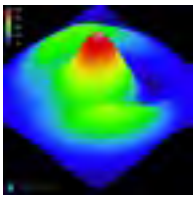
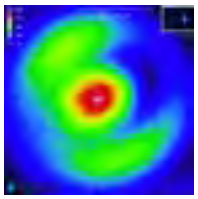
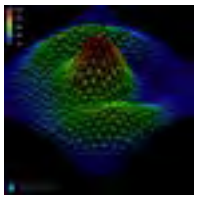
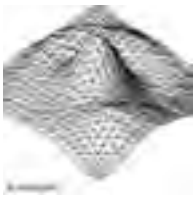
Modulated Laser, Ø8x21mm

Size	Ø8x21mm
Beam Shape	Dot
Beam Diameter	2mm
Material	aluminium
Optics	glass lens AR coated
Focus	collimated
Output Aperture	2mm
Operating Voltage	5V DC



Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Operating Current	Max. Mod. Frequency	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Axial Divergence	Size of Laserdot	Line Thickness
		nm	mW		mrad	mA	kHz			mrad	mm	h			
70103250	MI650-1-5(8X21)	650	1	2	I - 1.5	20	100		isolated	I - 1.5	100	5000		<3..5mm@5m	

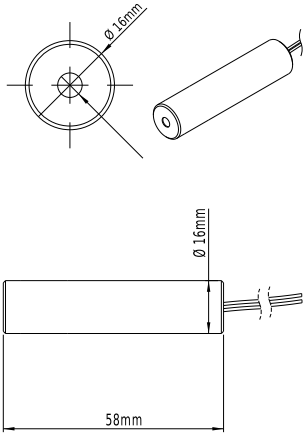



Modulated Laser, Ø16x58mm

- Protection lens
- Laser Class 2M
- Compact size
- Modulated
- Image processing

Size	Ø16x58mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (400mm)
Operating Voltage	5V DC

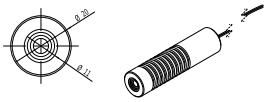


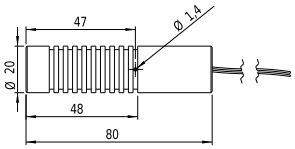
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Operating Current	Max. Mod. Frequency	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Axial Divergence	Size of Laserdot	Line Thickness
		nm	mW		mrad	mA	kHz			mrad	mm	h			
70110340	MLH650-24-5(16X58)-F400	650	24	2M	H - 1.0	110	200		isolated	H - 1.0	100	5000			<0.5mm@0.4m

Modulated Laser, Ø20x80mm

- Uniform illumination
- Uniform line thickness
- High Power
- Laser Class 2M
- Modulated

Size	Ø20x80mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (5.0m)
Output Aperture	5mm
Operating Voltage	5V DC
Stability	+/- 20% @ 15-30°C



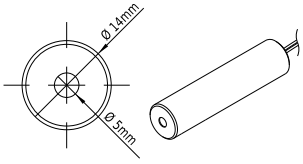


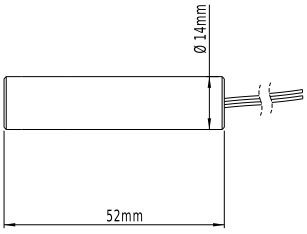
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Operating Current	Max. Mod. Frequency	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Axial Divergence	Size of Laserdot	Line Thickness
		nm	mW		mrad	mA	kHz			mrad	mm	h			
70101294	MLD532-15-5(20X80)	532	15	2M	D - 0.5	350	10		isolated	D - 0.5	100	5000			<1.5mm@5m

Modulated Laser, Ø14x52mm

- Operating Voltage 5V DC
- Fixed focus
- Image processing
- Small laser head
- Laser Class 1

Size	Ø14x52mm
Beam Shape	Dot
Beam Diameter	5mm
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (50.0m)
Output Aperture	5mm
Operating Voltage	5V DC





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Operating Current	Max. Mod. Frequency	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Axial Divergence	Size of Laserdot	Line Thickness
		nm	mW		mrad	mA	kHz			mrad	mm	h			
70122176	MDB980-0.4-5-FA(14X52)	980	0.4	1	B - 0.3	12	50		isolated	B - 0.3	100	5000		<300mm@50m	

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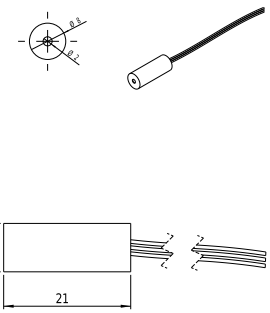
Modulated Laser, Ø8x21mm

- Laser Class 3R
- Operating Voltage 5V DC
- Glas lenses anti reflex coated
- Compact size

Size	Ø8x21mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Focus	collimated
Output Aperture	2.5mm
Operating Voltage	5V DC

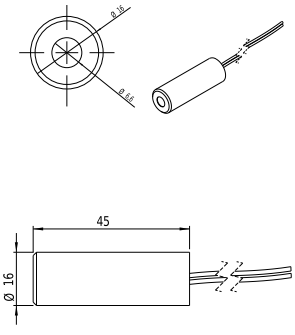


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Operating Current	Max. Mod. Frequency	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Axial Divergence	Size of Laserdot	Line Thickness
		nm	mW		mrad	mA	kHz			mrad	mm	h			
70122756	MDI850-3-5(8X21)	850	3	3R	I - 1.5	15	10		VDD(+)	I - 1.5	100	5000		3mm@5m	

Modulated Laser, Ø16x45mm

- Operating Voltage 3.3V DC
- Laser Class 1
- Low power consumption
- Compact size
- Fixed focus

Size	Ø16x45mm
Beam Shape	Cross
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (685mm)
Output Aperture	7mm
Operating Voltage	3.3V DC
Verticality	< ±0.5°

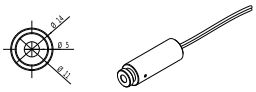


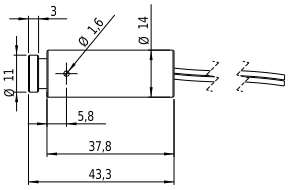
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Operating Current	Max. Mod. Frequency	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Axial Divergence	Size of Laserdot	Line Thickness
		nm	mW		mrad	mA	kHz			mrad	mm	h			
70116762	MCB635-2-3.3(16X45)	635	2	1	B - 0.3	40	50	✓	isolated	B - 0.3	400	10000			<0.5mm@0.685m

Modulated Laser, Ø14x45mm

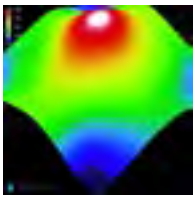
- Operating Voltage 5V DC
- Modulated
- Compact size
- Laser Class 3B
- Adjustable focus

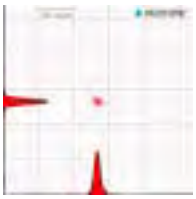
Size	Ø14x45mm
Beam Shape	Dot
Material	Brass
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	5mm
Operating Voltage	5V DC

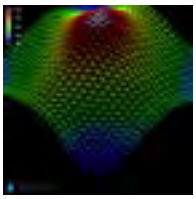




Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Operating Current	Max. Mod. Frequency	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Axial Divergence	Size of Laserdot	Line Thickness
		nm	mW		mrad	mA	kHz			mrad	mm	h			
70101935	MH650-16-5(14X45)	650	16	3B	H - 1.0	120	500		isolated	H - 1.0	100	5000		adjustable	



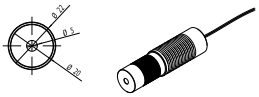


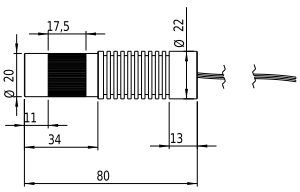


Modulated Laser, Ø22x80mm

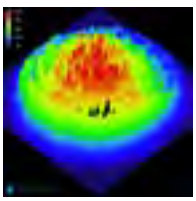
- Laser Class 3R
- Operating Voltage 5V DC
- Compact size
- Glas lenses anti reflex coated
- Adjustable focus

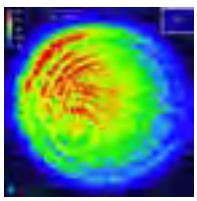
Size	Ø22x80mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	5mm
Operating Voltage	5V DC
Stability	+/- 20% @ 15-30°C

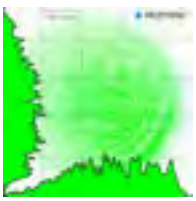


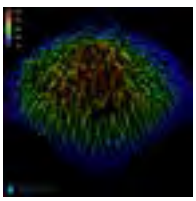


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Operating Current	Max. Mod. Frequency	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Axial Divergence	Size of Laserdot	Line Thickness
		nm	mW		mrad	mA	kHz			mrad	mm	h			
70114904	MD532-5-5-F(22X80)	532	5	3R	D - 0.5	250	1		isolated	D - 0.5	100	5000		adjustable	









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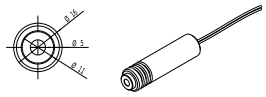
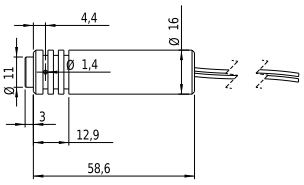
Modulated Laser, Ø16x50mm

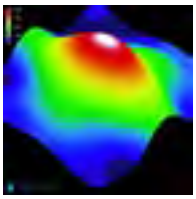
- Operating Voltage 5V DC
- Laser Class 3R
- Compact size
- Adjustable focus
- Glas lenses anti reflex coated

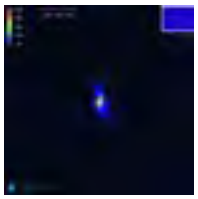
Size	Ø16x50mm
Beam Shape	Dot
Material	Brass
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	5mm
Operating Voltage	5V DC

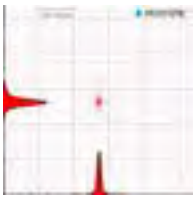


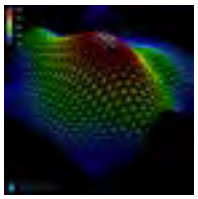


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Operating Current	Max. Mod. Frequency	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Axial Divergence	Size of Laserdot	Line Thickness
		nm	mW		mrad	mA	kHz			mrad	mm	h			
70101539	ME650-3-5(16X50)	650	3	3R	E - 0.6	25	500			E - 0.6	100	5000		adjustable	





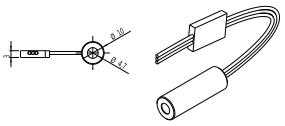


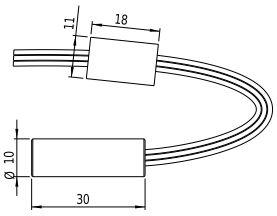


Modulated Laser, Ø10x30mm

- High Power
- Compact size
- Laser Class 2
- Operating Voltage 5V DC
- Fixed focus

Size	Ø10x30mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (100mm)
Output Aperture	4.5mm
Operating Voltage	5V DC
PCB	✓
PCB size	7.5x14x10mm

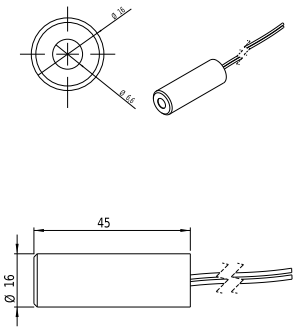




Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Operating Current	Max. Mod. Frequency	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Axial Divergence	Size of Laserdot	Line Thickness
		nm	mW		mrad	mA	kHz			mrad	mm	h			
70116847	MLH650-16-5(10X30)-F100	650	16	2	H - 1.0	60	200	—	isolated	H - 1.0	100	5000			<0.3mm@0.1m

Modulated Laser, Ø16x45mm

Size	Ø16x45mm
Beam Shape	Cross
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (100mm)
Output Aperture	6.8mm
Operating Voltage	3V DC

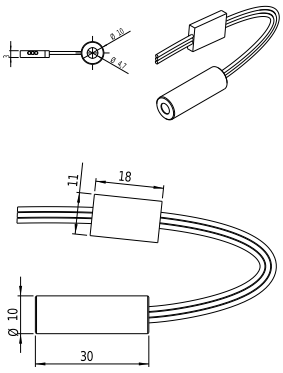


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Operating Current	Max. Mod. Frequency	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Axial Divergence	Size of Laserdot	Line Thickness
		nm	mW		mrad	mA	kHz			mrad	mm	h			
70100518	CB650-1.2-3(16X45)-F100	650	1.2	1	B - 0.3	25	50		isolated	B - 0.3	100	5000			<0.3mm@0.1m

Modulated Laser, Ø10x30mm

- High Power
- Compact size
- Laser Class 2
- Operating Voltage 5V DC
- Fixed focus

Size	Ø10x30mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (150mm)
Output Aperture	4.5mm
Operating Voltage	5V DC
PCB	✓
PCB size	14.8x10.8x4.7mm



Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Operating Current	Max. Mod. Frequency	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Axial Divergence	Size of Laserdot	Line Thickness
		nm	mW		mrad	mA	kHz			mrad	mm	h			
70117219	MLH650-16-5(10X30)-60DEG-F150	650	16	2	H - 1.0	60	200	—	isolated	H - 1.0	100	5000			<0.3mm@0.15m

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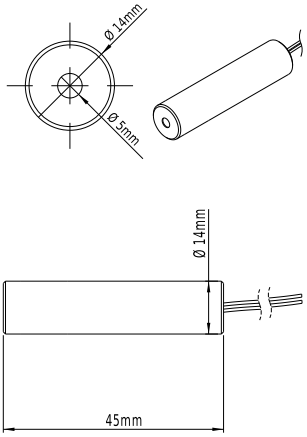
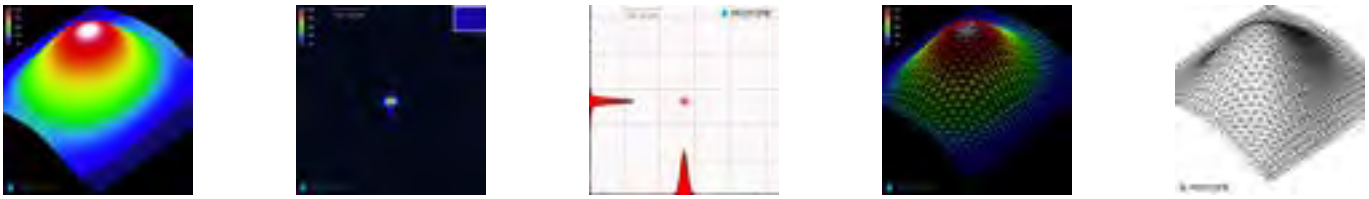
Modulated Laser, Ø14x45mm

- Operating Voltage 5V DC
- Glas lenses anti reflex coated
- Adjustable focus
- Modulated
- Laser Class 3B

Size	Ø14x45mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	5mm
Operating Voltage	5V DC
PCB	✓
PCB size	40x25x10mm



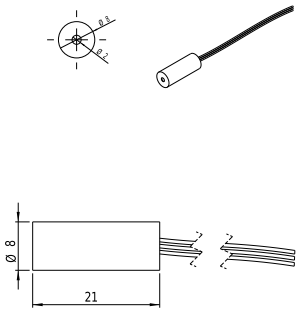
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Operating Current mA	Max. Mod. Frequency kHz	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Lifetime h	Axial Divergence	Size of Laserdot	Line Thickness
70106787	AMH650-10-5(14X45)	650	10	3B	H - 1.0	50	10		isolated	H - 1.0	100	5000		adjustable	



Modulated Laser, Ø8x21mm

- Axial parallel
- Operating Voltage 5V DC
- Laser Class 2
- Compact size
- Image processing

Size	Ø8x21mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Focus	collimated
Output Aperture	2mm
Operating Voltage	5V DC

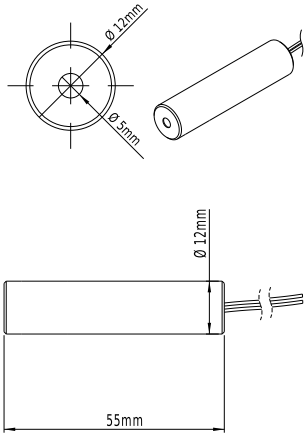


Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Operating Current mA	Max. Mod. Frequency kHz	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Lifetime h	Axial Divergence	Size of Laserdot	Line Thickness
70108583	MI650-1-5(8X21)-AP	650	1	2	I - 1.5	25	200			I - 1.5	100	5000	±0.1°	<2..3mm@5m	

Modulated Laser, Ø12x55mm

- Adjustable focus
- DOE optic can be changed
- Compact size
- Glas lenses anti reflex coated
- Operating Voltage 3V DC

Size	Ø12x55mm
Beam Shape	DOE
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	5mm
Operating Voltage	3V DC

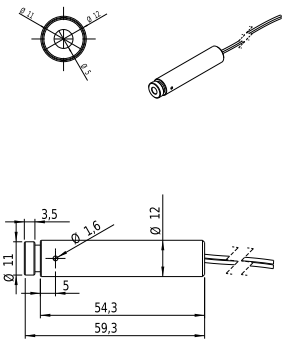


Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Operating Current mA	Max. Mod. Frequency kHz	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Lifetime h	Axial Divergence	Size of Laserdot	Line Thickness
70120271	MDD850-4-3(12X55)-DOE	850	4	3R	D - 0.5	20	100		isolated	D - 0.5	100	5000			

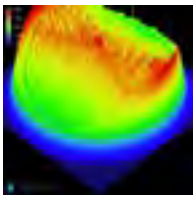
Modulated Laser, Ø12x60mm

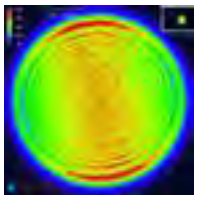
- Operating Voltage 5V DC
- Adjustable focus
- Laser Class 2
- Compact size
- Modulated

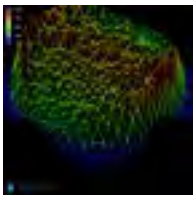
Size	Ø12x60mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	5mm
Operating Voltage	5V DC



Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Operating Current mA	Max. Mod. Frequency kHz	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Lifetime h	Axial Divergence	Size of Laserdot	Line Thickness
70113839	MDA635-1-5-F(12X60)	635	1	2	A - 0.1	40	200		isolated	A - 0.1	100	5000		adjustable	







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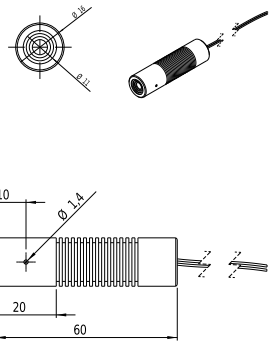
Modulated Laser, Ø16x60mm

- Operating Voltage 5V DC
- Laser Class 2M
- Fan angle 10°
- Compact size
- Modulated

Size	Ø16x60mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (3000mm)
Output Aperture	7mm
Operating Voltage	5V DC

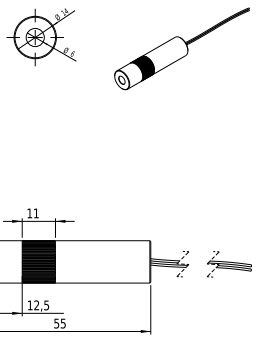


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Operating Current	Max. Mod. Frequency	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Axial Divergence	Size of Laserdot	Line Thickness
		nm	mW		mrad	mA	kHz			mrad	mm	h			
70102802	MLB650-3.5-5(16X60)10DEG	650	3.5	2M	B - 0.3	30	50	✓	isolated	B - 0.3	700	5000			<1.5mm@3m

Modulated Laser, Ø14x55mm

- Laser Class 2
- Low power consumption
- Uniform line thickness
- Image processing

Size	Ø14x55mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (1000mm)
Output Aperture	5.5mm
Operating Voltage	5V DC

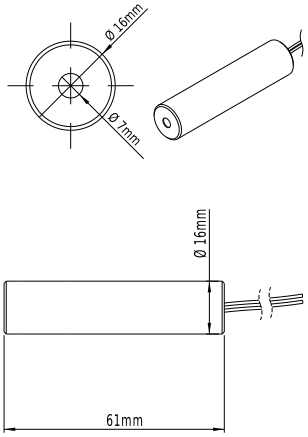


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Operating Current	Max. Mod. Frequency	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Axial Divergence	Size of Laserdot	Line Thickness
		nm	mW		mrad	mA	kHz			mrad	mm	h			
70125948	MLE635-15-5(14X55)40DEG-F1000	635	15	2	E - 0.6	170	100		isolated	E - 0.6	500	5000			<0.5mm@1m

Modulated Laser, Ø16x61mm

- Operating Voltage 3.3V DC
- Low power consumption
- Modulated 50kHz directly over 3
- 3V DC
- Module has only 2 wires

Size	Ø16x61mm
Beam Shape	Cross
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (685mm)
Output Aperture	7mm
Operating Voltage	3.3V DC
Verticality	< ±0.5°

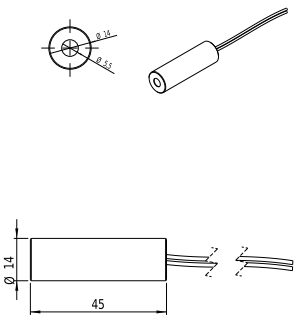


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Operating Current	Max. Mod. Frequency	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Axial Divergence	Size of Laserdot	Line Thickness
		nm	mW		mrad	mA	kHz			mrad	mm	h			
70116786	MCB650-5-3.3(16X61)-PL	650	3	1	B - 0.3	40	50	✓	isolated	B - 0.3	400	10000			<0.5mm@0.685m

Modulated Laser, Ø14x45mm

- Operating Voltage 5V DC
- Compact size
- High Power
- Laser Class 3B

Size	Ø14x45mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Focus	collimated
Output Aperture	3mm
Operating Voltage	5V DC



Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Operating Current	Max. Mod. Frequency	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Axial Divergence	Size of Laserdot	Line Thickness
		nm	mW		mrad	mA	kHz			mrad	mm	h			
70123982	MDC658-40-5(14X45)	658	40	3B	C - 0.4	130	100		isolated	C - 0.4	250	5000		3mm@10mm	

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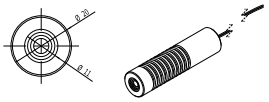
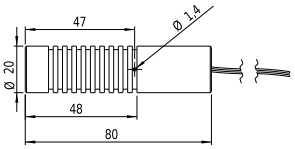
Modulated Laser, Ø20x80mm

- Laser Class 2M
- High Power
- Modulated

Size	Ø20x80mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (7.0m)
Output Aperture	5mm
Operating Voltage	5V DC
Stability	+/- 20% @ 15-30°C



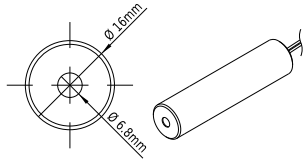


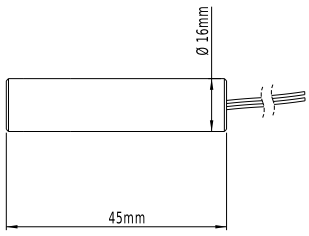
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Operating Current	Max. Mod. Frequency	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Axial Divergence	Size of Laserdot	Line Thickness
		nm	mW		mrad	mA	kHz			mrad	mm	h			
70101362	MLD532-20-5(20X80)	532	20	2M	D - 0.5	450	10		isolated	D - 0.5	100	5000			<2mm@7m

Modulated Laser, Ø16x45mm

- Operating Voltage 5V DC
- Laser Class 3R
- Glas lenses anti reflex coated
- Adjustable focus
- Modulated

Size	Ø16x45mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	6.8mm
Operating Voltage	5V DC



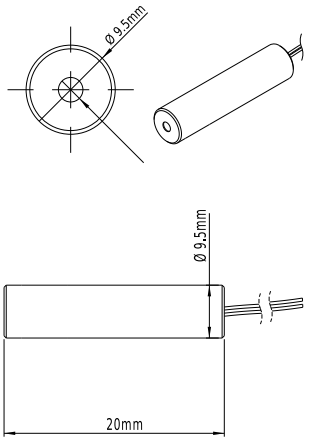


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Operating Current	Max. Mod. Frequency	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Axial Divergence	Size of Laserdot	Line Thickness
		nm	mW		mrad	mA	kHz			mrad	mm	h			
70100686	MB670-3-5(16X45)	670	3	3R	B - 0.3	30	200		isolated	B - 0.3	100	5000		adjustable	

Modulated Laser, Ø9.5x20mm

- Image processing
- Uniform illumination
- Modulated
- Protection lens
- Compact size

Size	Ø9.5x20mm
Beam Shape	expander
Material	aluminium
Optics	glass lens AR coated
Operating Voltage	5V DC

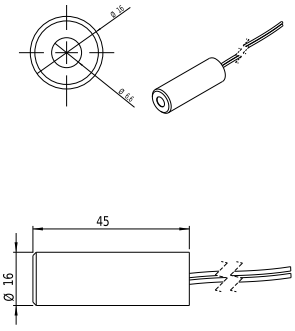


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Operating Current	Max. Mod. Frequency	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Axial Divergence	Size of Laserdot	Line Thickness
		nm	mW		mrad	mA	kHz			mrad	mm	h			
70121544	MEJ658-100-5(9.5X20)-NO-OPTICS	658	100	3R		180	200	—	isolated		100	10000		50x80mm@0.3m	

Modulated Laser, Ø16x45mm

- Operating Voltage 5V DC
- Laser Class 1
- Low power consumption
- Modulated
- Fixed focus

Size	Ø16x45mm
Beam Shape	Cross
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (1500mm)
Output Aperture	6.8mm
Operating Voltage	5V DC
Verticality	< ±0.5°



Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Operating Current	Max. Mod. Frequency	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Axial Divergence	Size of Laserdot	Line Thickness
		nm	mW		mrad	mA	kHz			mrad	mm	h			
70123616	MCB650-20-5(16X45)	650	20	1	B - 0.3	80	20		isolated	B - 0.3	100	5000			<1.5mm@1.5m

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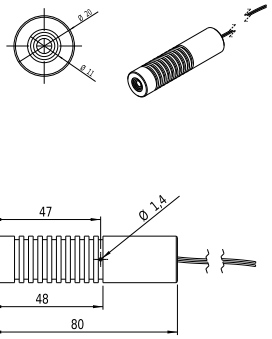
Modulated Laser, Ø20x80mm

Size	Ø20x80mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (1000mm)
Output Aperture	5mm
Operating Voltage	5V DC
Stability	+/- 20% @ 15-30°C

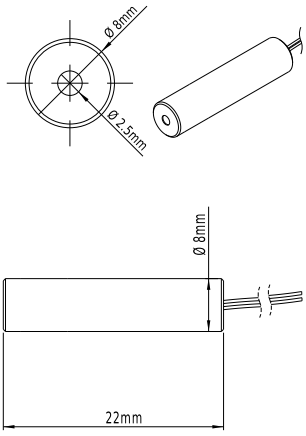


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Operating Current	Max. Mod. Frequency	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Axial Divergence	Size of Laserdot	Line Thickness
		nm	mW		mrad	mA	kHz			mrad	mm	h			
70100884	MLD532-1-5(20X80)	532	1	1	D - 0.5	125	10		isolated	D - 0.5	100	5000			<0.7mm@1m

Modulated Laser, Ø8x22mm

- Laser Class 1
- Operating Voltage 5V DC
- Glas lenses anti reflex coated
- Compact size

Size	Ø8x22mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Focus	collimated
Output Aperture	2.5mm
Operating Voltage	5V DC

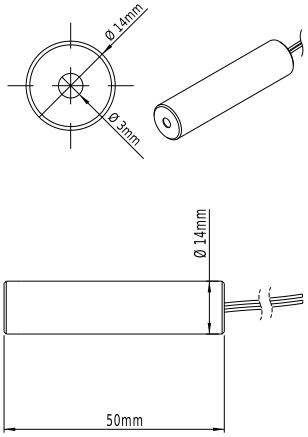


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Operating Current	Max. Mod. Frequency	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Axial Divergence	Size of Laserdot	Line Thickness
		nm	mW		mrad	mA	kHz			mrad	mm	h			
70123906	MDI850-0.7-5(8X22)	850	0.7	1	I - 1.5	15	10		VDD(+)	I - 1.5	100	10000		3mm@5m	

Modulated Laser, Ø14x50mm

- Operating Voltage 5V DC
- Laser Class 2
- Adjustable focus
- Analog modulatable

Size	Ø14x50mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (2000mm)
Output Aperture	3mm
Operating Voltage	5V DC

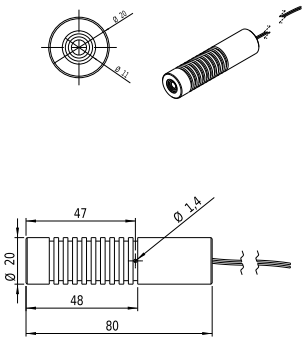


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Operating Current	Max. Mod. Frequency	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Axial Divergence	Size of Laserdot	Line Thickness
		nm	mW		mrad	mA	kHz			mrad	mm	h			
70122527	AMLD635-1-5(14X50)-5DEG	635	0.9	2	D - 0.5	35	1	—	isolated	D - 0.5	200	10000			1.5mm@2m

Modulated Laser, Ø20x80mm

- Laser Class 2M
- High Power
- Modulated

Size	Ø20x80mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (10.0m)
Output Aperture	5mm
Operating Voltage	5V DC
Stability	+/- 20% @ 15-30°C



Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Operating Current	Max. Mod. Frequency	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Axial Divergence	Size of Laserdot	Line Thickness
		nm	mW		mrad	mA	kHz			mrad	mm	h			
70101416	MLD532-25-5(20X80)	532	25	2M	D - 0.5	450	10		isolated	D - 0.5	100	5000			<2.5mm@10m

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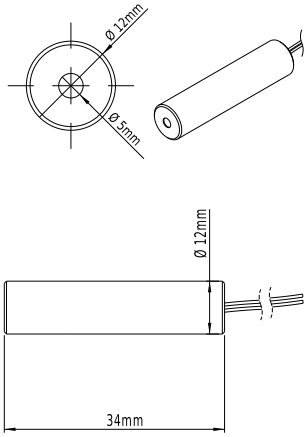
Modulated Laser, Ø12x34mm

Size	Ø12x34mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	5mm
Operating Voltage	5V DC

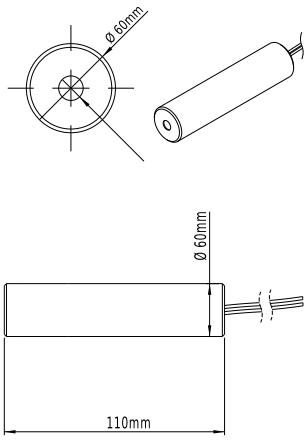


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Operating Current	Max. Mod. Frequency	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Axial Divergence	Size of Laserdot	Line Thickness
		nm	mW		mrad	mA	kHz			mrad	mm	h			
70100952	MD670-2-5(12X34)	670	2	3R	D - 0.5	50	200		isolated	D - 0.5	100	5000		adjustable	

Modulated Laser, Ø60x110mm

- Operating Voltage 5V DC
- Laser Class 4
- Small laser head
- Glas lenses anti reflex coated
- High Power

Size	Ø60x110mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Operating Voltage	5V DC
Power Supply included	✓

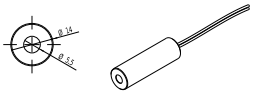


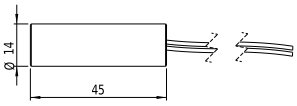
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Operating Current	Max. Mod. Frequency	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Axial Divergence	Size of Laserdot	Line Thickness
		nm	mW		mrad	mA	kHz			mrad	mm	h			
70114034	MDH808-4000-5(60X110)-NT	808	4000	4	H - 1.0	5000	10			H - 1.0	115	5000		adjustable	

Modulated Laser, Ø14x45mm

- Operating Voltage 5V DC
- Laser Class 1
- Fan angle 90°
- Uniform line thickness
- Fixed focus

Size	Ø14x45mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (2000mm)
Output Aperture	6mm
Operating Voltage	5V DC



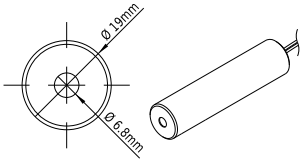


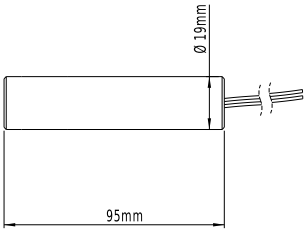
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Operating Current	Max. Mod. Frequency	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Axial Divergence	Size of Laserdot	Line Thickness
		nm	mW		mrad	mA	kHz			mrad	mm	h			
70100983	MLD635-2.2-5(14X45)	635	2.2	1	D - 0.5	45	200			D - 0.5	100	5000			<1.5mm@2m

Modulated Laser, Ø19x95mm

- Operating Voltage 24V DC
- Laser Class 2M
- Adjustable focus
- High power

Size	Ø19x95mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	6.8mm
Operating Voltage	24V DC
Connector	2.1 mm DC socket (+pole





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Operating Current	Max. Mod. Frequency	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Axial Divergence	Size of Laserdot	Line Thickness
		nm	mW		mrad	mA	kHz			mrad	mm	h			
70126037	MLB658-50-24(19X95)-PL-CON	658	50	2M	B - 0.3	70	50	✓	isolated	B - 0.3	500	10000			adjustable

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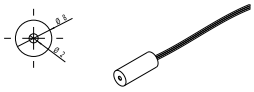
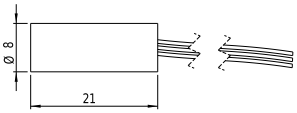
Modulated Laser, Ø8x21mm

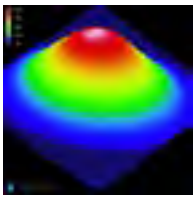
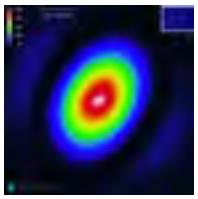
- Axial parallel
- Operating Voltage 5V DC
- Laser Class 2
- Compact size
- Image processing

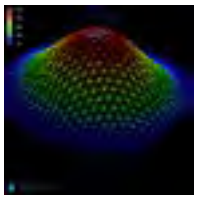
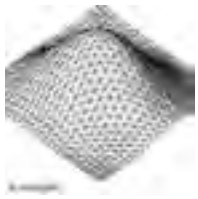
Size	Ø8x21mm
Beam Shape	Dot
Beam Diameter	2mm
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (700mm)
Output Aperture	2mm
Operating Voltage	5V DC





Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Operating Current mA	Max. Mod. Frequency kHz	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Lifetime h	Axial Divergence	Size of Laserdot	Line Thickness
70110319	MI650-1-5(8X21)-F700-AP	650	1	2	I - 1.5	20	200		isolated	I - 1.5	100	5000	±2°	<0.3mm@0.7m	

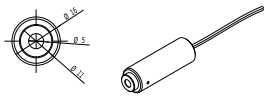



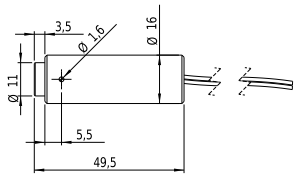



Modulated Laser, Ø16x50mm

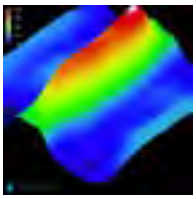
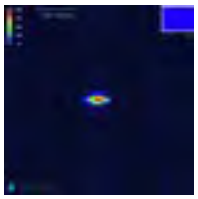
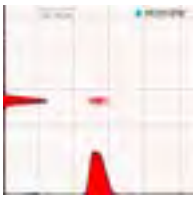
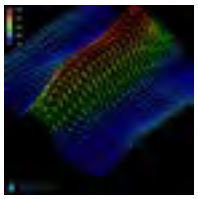
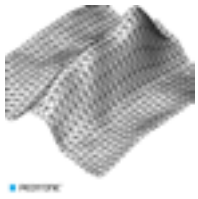
- Operating Voltage 5V DC
- Laser Class 3R
- Glas lenses anti reflex coated
- Adjustable focus
- Modulated

Size	Ø16x50mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	6.8mm
Operating Voltage	5V DC





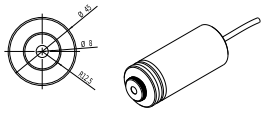
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Operating Current mA	Max. Mod. Frequency kHz	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Lifetime h	Axial Divergence	Size of Laserdot	Line Thickness
70100655	MB650-3-5(16X50)	650	3	3R	B - 0.3	25	500		isolated	B - 0.3	100	5000		adjustable	

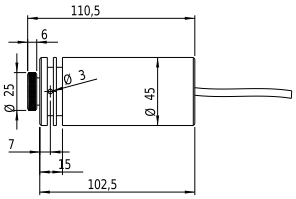






Modulated Laser, Ø45x100mm

- Laser Class 4
- Adjustable focus
- High Power
- Operating Voltage 5V DC
- Small laser head

Size	Ø45x100mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	6mm
Operating Voltage	5V DC



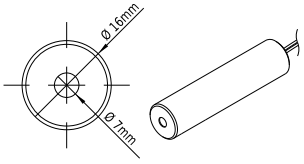


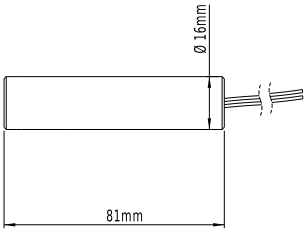
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Operating Current	Max. Mod. Frequency	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Axial Divergence	Size of Laserdot	Line Thickness
		nm	mW		mrad	mA	kHz			mrad	mm	h			
70119695	MDH808-600-5(45X100)	808	600	4	H - 1.0	900	1		VDD(+)	H - 1.0	500	5000		adjustable	

Modulated Laser, Ø16x81mm

- Operating Voltage 24V DC
- Low power consumption
- Modulated 50kHz directly over 3
- 3V DC

Size	Ø16x81mm
Beam Shape	Cross
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (5.0m)
Output Aperture	7mm
Operating Voltage	24V DC
Verticality	< ±0.5°





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Operating Current	Max. Mod. Frequency	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Axial Divergence	Size of Laserdot	Line Thickness
		nm	mW		mrad	mA	kHz			mrad	mm	h			
70124491	MCB650-5-24(16X81)45-PL	650	5	1	B - 0.3	10	100	✓	isolated	B - 0.3	400	10000			<3mm@5m

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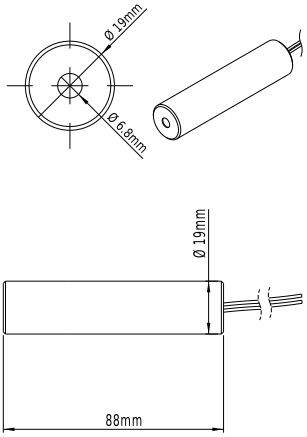
Modulated Laser, Ø19x88mm

- Operating Voltage 24V DC
- Laser Class 2M
- Adjustable focus
- High power

Size	Ø19x88mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	6.8mm
Operating Voltage	24V DC

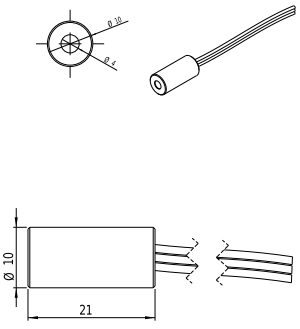


Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Operating Current mA	Max. Mod. Frequency kHz	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Lifetime h	Axial Divergence	Size of Laserdot	Line Thickness
70122220	MLB658-50-24(19X88)-PL	658	50	2M	B - 0.3	70	50	✓	isolated	B - 0.3	500	10000			adjustable

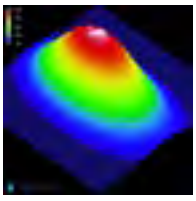
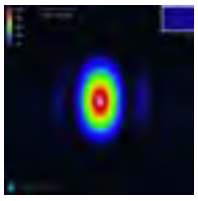
Modulated Laser, Ø10x21mm

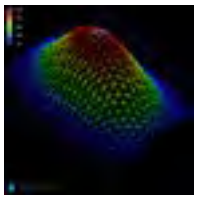
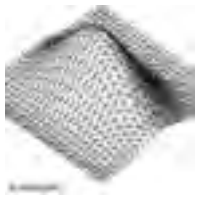
- Operating Voltage 5V DC
- Modulated
- Laser Class 3R
- Compact size
- Glas lenses anti reflex coated

Size	Ø10x21mm
Beam Shape	Dot
Beam Diameter	2.5mm
Material	Brass
Optics	glass lens AR coated
Focus	collimated
Output Aperture	2mm
Operating Voltage	5V DC



Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Divergence mrad	Operating Current mA	Max. Mod. Frequency kHz	Protection Lens	Potential of Housing	Divergence mrad	Cable length mm	Lifetime h	Axial Divergence	Size of Laserdot	Line Thickness
70115048	MI650-5-5(10X21)	650	5	3R	D - 0.5	25	500		isolated	D - 0.5	100	5000		<2.5mm@1m	

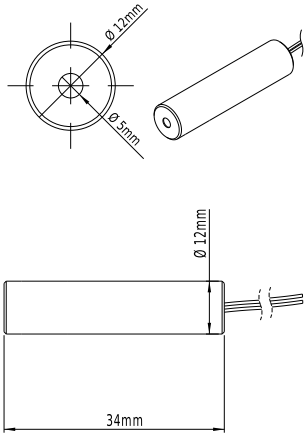



Modulated Laser, Ø12x34mm

- Low power consumption
- Compact size
- Modulated
- Glas lenses anti reflex coated

Size	Ø12x34mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Focus	collimated
Output Aperture	5mm
Operating Voltage	5V DC

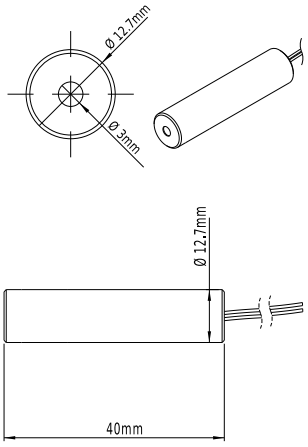


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Operating Current	Max. Mod. Frequency	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Axial Divergence	Size of Laserdot	Line Thickness
		nm	mW		mrad	mA	kHz			mrad	mm	h			
70122350	MD650-1-5(12X34)-F10000	650	1	2	D - 0.5	20	100		isolated	D - 0.5	100	10000		5mm@10m	

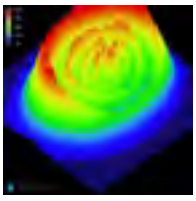
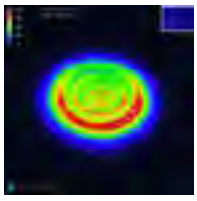
Modulated Laser, Ø12.7x40mm

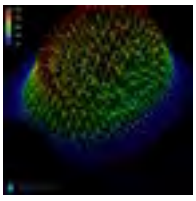
- Operating Voltage 5V DC
- Modulated
- Laser Class 2
- Compact size
- Glas lenses anti reflex coated

Size	Ø12.7x40mm
Beam Shape	Dot
Material	Brass
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	3mm
Operating Voltage	5V DC



Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Operating Current	Max. Mod. Frequency	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Axial Divergence	Size of Laserdot	Line Thickness
		nm	mW		mrad	mA	kHz			mrad	mm	h			
70116366	MDD405-1-5(12.7X40)	405	1	2	D - 0.5	50	100		isolated	D - 0.5	150	10000		adjustable	



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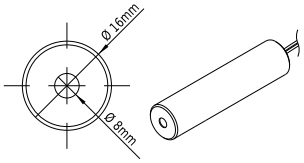
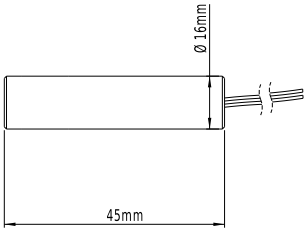
Modulated Laser, Ø16x45mm

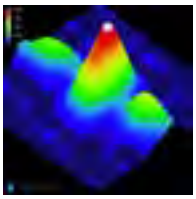
- Operating Voltage 5V DC
- Laser Class 3R
- Adjustable focus
- Glas lenses anti reflex coated
- Modulated

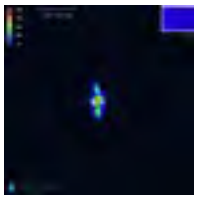
Size	Ø16x45mm
Beam Shape	Dot
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	8mm
Operating Voltage	5V DC

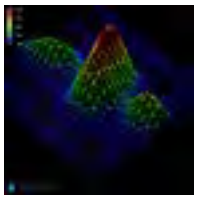




Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Operating Current	Max. Mod. Frequency	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Axial Divergence	Size of Laserdot	Line Thickness
		nm	mW		mrad	mA	kHz			mrad	mm	h			
70100631	MB635-3-5(16X45)	635	3	3R	B - 0.3	25	200		isolated	B - 0.3	100	5000		adjustable	



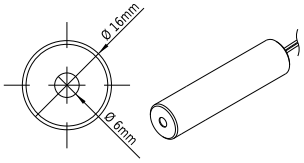


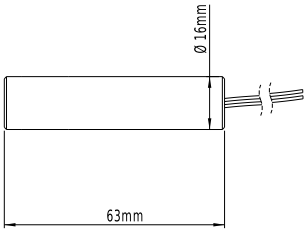


Modulated Laser, Ø16x63mm

- Laser Class 1
- Operating Voltage 5V DC
- Uniform line thickness
- Fixed focus
- Glas lenses anti reflex coated

Size	Ø16x63mm
Beam Shape	Line
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (3000mm)
Output Aperture	6mm
Operating Voltage	5V DC





Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Divergence	Operating Current	Max. Mod. Frequency	Protection Lens	Potential of Housing	Divergence	Cable length	Lifetime	Axial Divergence	Size of Laserdot	Line Thickness
		nm	mW		mrad	mA	kHz			mrad	mm	h			
70100662	MLB650-5-5(16X63)	650	5	1	B - 0.3	30	200		isolated	B - 0.3	100	5000			<1.5mm@3m

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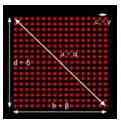
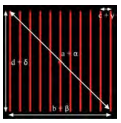
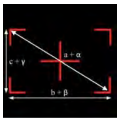
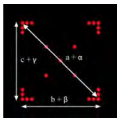
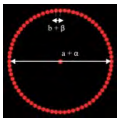
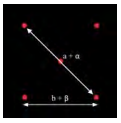
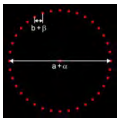
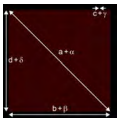
Order Number	Partnumber	Description	Optimal Wavelength range nm	DOE Picture	Page
70124088	DOE-DE-R205	Diffractive Optical Element DOE CROSS - 5 - PC - 8x2.1mm 5° @650nm	580 - 660		245
70107890	DOE-DE-R206	Diffractive Optical Element DOE 17x17 Dots - PMMA - 8x1mm 21.5° @660nm	590 - 730		255
70107906	DOE-DE-R213	Diffractive Optical Element DOE 11 Lines (Square Area) - PC - 8x1,2mm 42° @635nm	530 - 670		258
70124095	DOE-DE-R214	Diffractive Optical Element DOE CROSS - 2 - PC - 8x2.1mm 2° @645nm	600 - 645		243
70107913	DOE-DE-R215	Diffractive Optical Element DOE Viewfinder - PC - 8x1,2mm 18.2° @645nm	570 - 750		236
70113150	DOE-DE-R216	Diffractive Optical Element DOE Viewfinder (Dot Square) PC - 8x1,2mm 10.1° @488nm	405 - 488		242
70107920	DOE-DE-R218	Diffractive Optical Element DOE Cross - PMMA - 8x1mm 15° @640nm	500 - 640		244
70107937	DOE-DE-R219	Diffractive Optical Element DOE Circle - PMMA - 8x1mm 31,2° @592nm	480 - 600		237
70107944	DOE-DE-R221	Diffractive Optical Element DOE 1:72 DOT Circle - PMMA - 8x1mm 20.9° @532nm	400 - 570		251
70114294	DOE-DE-R223	Diffractive Optical Element DOE 2 x 2 + 1 Dots - PMMA - 8x1mm 16.1° @635nm	405 - 635		239
70110371	DOE-DE-R227	Diffractive Optical Element DOE Solid Line PC - 8x1,2mm 40°	600 - 730		244
70124149	DOE-DE-R229	Diffractive Optical Element DOE 1 : 36 DOT CIRCLE - PC - 8x2.1mm 3.5° @532nm	480 - 560		243
70124132	DOE-DE-R231	Diffractive Optical Element DOE 101 x 101 DOTS - PC - 8x1.2mm 7.4° @660nm	635 - 680		257

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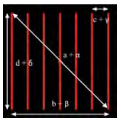
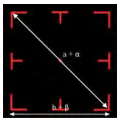
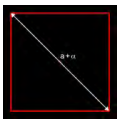
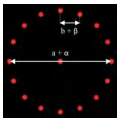
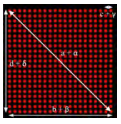
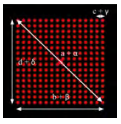
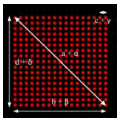
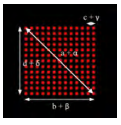
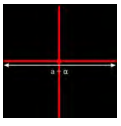
Order Number	Partnumber	Description	Optimal Wavelength range nm	DOE Picture	Page
70107951	DOE-DE-R233	Diffractive Optical Element DOE 7 Lines (Square Area) - PC - 8x1,2mm 30° @635	530 - 670		260
70110357	DOE-DE-R234	Diffractive Optical Element DOE Viewfinder - PC - 8x1,2mm 47° @633nm	590 - 730		250
70124163	DOE-DE-R236	Diffractive Optical Element DOE SOLID LINE SQUARE - PC - 8x2.1mm 45° @633nm	530 - 650		237
70124156	DOE-DE-R238	Diffractive Optical Element DOE SOLID LINE CIRCLE - PC - 8x2.1mm 3.4° @520nm	405 - 730		238
70124101	DOE-DE-R239	Diffractive Optical Element DOE CROSS - 5 - PC - 8x2.1mm 5° @520nm	488 - 600		259
70107968	DOE-DE-R240	Diffractive Optical Element DOE 1:16 DOT Circle - PC - 8x1,2mm 10.8° @635nm	530 - 700		236
70107975	DOE-DE-R241	Diffractive Optical Element DOE 21x21 DOTS - PC - 8x1,2mm 6.8° @635nm	560 - 730		249
70107982	DOE-DE-R242	Diffractive Optical Element DOE 16x16 DOTS - PC - 8x1,2mm 7.1° @635nm	530 - 730		251
70107999	DOE-DE-R243	Diffractive Optical Element DOE 17x17 Dots - PMMA - 8x1mm 7.1° @635nm	550 - 720		256
70108002	DOE-DE-R244	Diffractive Optical Element DOE 13x13 DOTS - PC - 8x1,2mm 4.3° @635nm	590 - 670		246
70108019	DOE-DE-R245	Diffractive Optical Element DOE CROSS - PC - 8x1,2mm 10° @633nm	570 - 690		253
70108026	DOE-DE-R246	Diffractive Optical Element DOE Cross with surrounding high-contrast area - PC - 8x1,2mm 10° @633nm	530 - 670		235
70108033	DOE-DE-R247	Diffractive Optical Element DOE CROSS - PC - 8x1,2mm 25° @645nm	600 - 800		254
70108040	DOE-DE-R248	Diffractive Optical Element DOE CROSS - PC - 8x1,2mm 37° @645nm	630 - 700		241
70108057	DOE-DE-R249	Diffractive Optical Element DOE CROSS - PC - 8x1,2mm 45° @633nm	500 - 640		239

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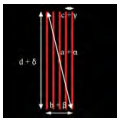
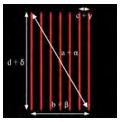
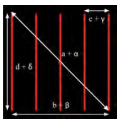
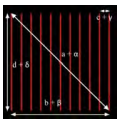
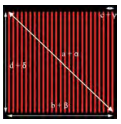
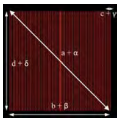
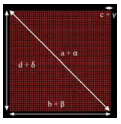
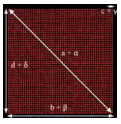
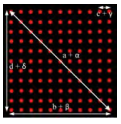
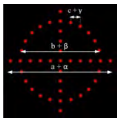
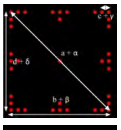
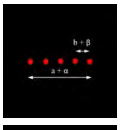
Order Number	Partnumber	Description	Optimal Wavelength range nm	DOE Picture	Page
70108064	DOE-DE-R250	Diffractive Optical Element DOE 5 LINES - PC - 8x1,2mm 30.8° @660nm	590 - 670		250
70108071	DOE-DE-R251	Diffractive Optical Element DOE 7 LINES - PC - 8x1,2mm 8.9° @650nm	590 - 730		234
70108088	DOE-DE-R252	Diffractive Optical Element DOE 5 LINES - PC - 8x1,2mm 24.1° @635nm	530 - 670		256
70108095	DOE-DE-R253	Diffractive Optical Element DOE 11 LINES - PC - 8x1,2mm 41.8° @635nm	530 - 670		233
70108101	DOE-DE-R254	Diffractive Optical Element DOE 25 LINES - PC - 8x1,2mm 37.7° @660nm	530 - 670		252
70108125	DOE-DE-R255	Diffractive Optical Element DOE 65Lines (Square Area, Central Line Thicker) PC 8x1.2mm 25.7° @660nm	530 - 670		247
70108132	DOE-DE-R256	Diffractive Optical Element DOE Square Grid 51x51 Lines PC 8x1.2mm 31°@660nm	530 - 660		240
70108149	DOE-DE-R257	Diffractive Optical Element DOE 51x51 Dots PC 8x1.2mm 31,8° @660nm	560 - 720		248
70108156	DOE-DE-R258	Diffractive Optical Element DOE 11x11 Dots PC 8x1.2mm 39.2° @635nm	590 - 690		257
70108163	DOE-DE-R259	Diffractive Optical Element DOE 5 Rings PC 8x1.2mm 29° @645nm	530 - 700		247
70108170	DOE-DE-R260	Diffractive Optical Element DOE Viewfinder (Circle + Cross) PC - 8x1,2mm 21° @645nm	570 - 750		259
70108187	DOE-DE-R261	Diffractive Optical Element DOE Viewfinder (Dot Circle + Cross) PC - 8x1,2mm 6,3° @653nm	570 - 750		255
70108194	DOE-DE-R262	Diffractive Optical Element DOE Viewfinder (Dot Square) PC - 8x1,2mm 10° @532nm	480 - 670		242
70108200	DOE-DE-R263	Diffractive Optical Element DOE 1:5 Dot Line PC 8x1.2mm 6° @635nm	450 - 700		246
70108217	DOE-DE-R264	Diffractive Optical Element DOE 1:9 Dot Line PC 8x1.2mm 0,9° @670nm	630 - 780		253

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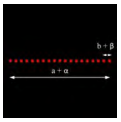
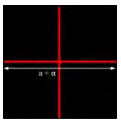
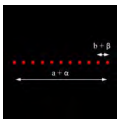
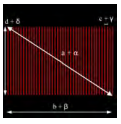
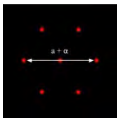
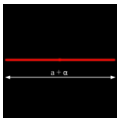
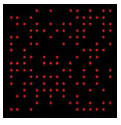
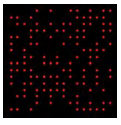
Order Number	Partnumber	Description	Optimal Wavelength range nm	DOE Picture	Page
70108224	DOE-DE-R265	Diffractive Optical Element DOE 1:19 Dot Line PC 8x1.2mm 13,7° @650nm 500-540 nm; 630-690 nm	630 - 690		238
70110364	DOE-DE-R266	Diffractive Optical Element DOE Solid Line PC - 8x1,2mm 5° @633nm	630 - 690		240
70124118	DOE-DE-R270	Diffractive Optical Element DOE CROSS - 30 - PC - 8x2.1mm 30° @640nm	580 - 650		258
70113143	DOE-DE-R280	Diffractive Optical Element DOE CROSS - PC - 8x1,2mm 60° @635nm	580 - 690		235
70114300	DOE-DE-R281	Diffractive Optical Element DOE 1:11 Dot Line - PMMA - 8x1mm 16.5° @650nm	600 - 730		234
70127720	DOE-DE-R283	Diffractive Optical Element DOE Solid Line PC - 8x1,2mm 20° @633nm	630 - 670		233
70118643	DOE-DE-R284	Diffractive Optical Element DOE 41 LINES - PC - 8x1,2mm 67.4° @660nm	600 - 700		252
70118650	DOE-DE-R285	Diffractive Optical Element DOE Hexagon - PC - 8x1,2 mm 7.5° @780nm	520 - 800		248
70118674	DOE-DE-R287	Diffractive Optical Element DOE 1 Solid Line -PMMA - 8x1 mm 45.5° @660nm	600 - 700		241
70124125	DOE-DE-R289	Diffractive Optical Element DOE CROSS - 15 - PC - 8x2.1mm 15° @520nm	480 - 550		245
70124170	DOE-DE-R332	Diffractive Optical Element DOE 33000-Dot Pseudo-Random Pattern (59.6°x41.7°@830nm) - PC - 8x1.2mm	820 - 850		249
70124187	DOE-DE-R335	Diffractive Optical Element DOE 33000-Dot Pseudo-Random Pattern (45.9°x31.5°@645nm) - PC- 8x2.1mm	630 - 660		254
70111231	DOE205-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE CROSS - 5 - PC - 8x2.1mm 5° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R205	550 - 650		245
70111972	DOE205-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE CROSS - 5 - PC - 8x2.1mm 5°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R205	550 - 650		245
70111606	DOE205-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE CROSS - 5 - PC - 8x2.1mm 5° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R205	550 - 650		245

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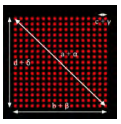
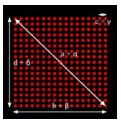
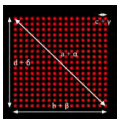
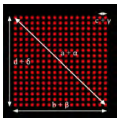
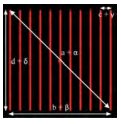
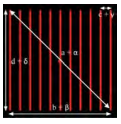
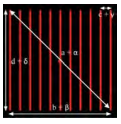
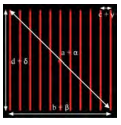
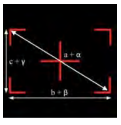
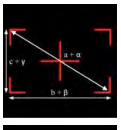
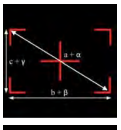
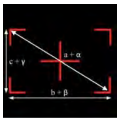
Order Number	Partnumber	Description	Optimal Wavelength range nm	DOE Picture	Page
70110715	DOE205-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE CROSS - 5 - PC - 8x2.1mm 5°, 5V DC, Ø10x22mm, Laser Class 2 with DOE-DE-R205	550 - 650		245
70110753	DOE205-635-5-6(10X22)-F7000	DOE Laser Module 635nm, red, 5mW, DOE CROSS - 5 - PC - 8x2.1mm 5°, 5V DC, Ø10x22mm, Laser Class 2 with DOE-DE-R205	550 - 650		245
70110913	DOE206-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE 17x17 Dots - PMMA - 8x1mm 21° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R206	590 - 730		255
70111644	DOE206-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE 17x17 Dots - PMMA - 8x1mm 21°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R206	590 - 730		255
70111279	DOE206-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE 17x17 Dots - PMMA - 8x1mm 21° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R206	590 - 730		255
70112061	DOE206-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE 17x17 Dots - PMMA - 8x1mm 21°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R206	590 - 730		255
70110920	DOE213-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE 11 Lines (Square Area) - PC - 8x1,2mm 42° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R213	530 - 670		258
70111651	DOE213-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE 11 Lines (Square Area) - PC - 8x1,2mm 42°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R213	530 - 670		258
70111286	DOE213-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE 11 Lines (Square Area) - PC - 8x1,2mm 42° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R213	530 - 670		258
70112078	DOE213-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE 11 Lines (Square Area) - PC - 8x1,2mm 42°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R213	530 - 670		258
70125696	DOE214-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE CROSS - PC - 8x1.2mm 2°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R214	480 - 600		243
70110784	DOE215-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE Viewfinder - PC - 8x1,2mm 18° with power supply, 3V DC, Ø16x90mm, Laser Class 2 with DOE-DE-R215	570 - 750		236
70111668	DOE215-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE Viewfinder - PC - 8x1,2mm 18°, 5V DC, Ø10x22mm, Laser Class 1 with DOE-DE-R215	570 - 750		236
70111293	DOE215-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE Viewfinder - PC - 8x1,2mm 18° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R215	570 - 750		236
70112085	DOE215-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE Viewfinder - PC - 8x1,2mm 18°, 5V DC, Ø10x22mm, Laser Class 2 with DOE-DE-R215	570 - 750		236

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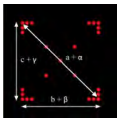
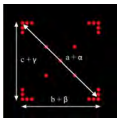
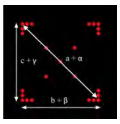
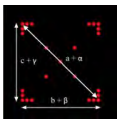
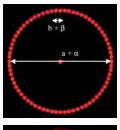
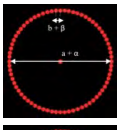
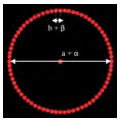
Order Number	Partnumber	Description	Optimal Wavelength range nm	DOE Picture	Page
70118896	DOE216-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE Viewfinder (Dot Square) PC - 8x1,2mm with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R216	405 - 488		242
70118872	DOE216-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE Viewfinder (Dot Square) PC - 8x1,2mm, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R216	405 - 488		242
70118858	DOE216-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE Viewfinder (Dot Square) PC - 8x1,2mm with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R216	405 - 488		242
70118889	DOE216-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE Viewfinder (Dot Square) PC - 8x1,2mm, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R216	405 - 488		242
70110944	DOE218-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE Cross - PMMA - 8x1mm 15° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R218	500 - 640		244
70111675	DOE218-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE Cross - PMMA - 8x1mm 15°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R218	500 - 640		244
70111309	DOE218-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE Cross - PMMA - 8x1mm 15° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R218	500 - 640		244
70112092	DOE218-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE Cross - PMMA - 8x1mm 15°, 5V DC, Ø10x22mm, Laser Class 2 with DOE-DE-R218	500 - 640		244
70110951	DOE219-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE Circle - PMMA - 8x1mm 34° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R219	480 - 600		237
70111682	DOE219-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE Circle - PMMA - 8x1mm 34°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R219	480 - 600		237
70110791	DOE219-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE Circle - PMMA - 8x1mm 34° with power supply, 3V DC, Ø16x90mm, Laser Class 1 with DOE-DE-R219	480 - 600		237
70112108	DOE219-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE Circle - PMMA - 8x1mm 34°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R219	480 - 600		237
70110968	DOE221-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE 1:72 DOT Circle - PMMA - 8x1mm 25° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R221	400 - 570		251
70111699	DOE221-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE 1:72 DOT Circle - PMMA - 8x1mm 25°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R221	400 - 570		251
70111323	DOE221-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE 1:72 DOT Circle - PMMA - 8x1mm 25° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R221	400 - 570		251

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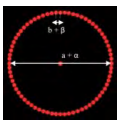
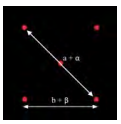
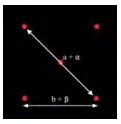
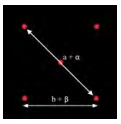
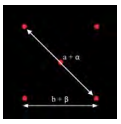
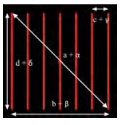
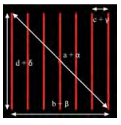
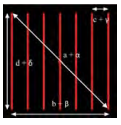
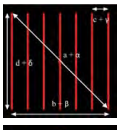
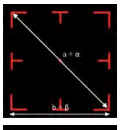
Order Number	Partnumber	Description	Optimal Wavelength range nm	DOE Picture	Page
70112115	DOE221-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE 1:72 DOT Circle - PMMA - 8x1mm 25°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R221	400 - 570		251
70119404	DOE223-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE 2 x 2 + 1 Dots - PMMA - 8x1mm 16° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R223	405 - 635		239
70119381	DOE223-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE 2 x 2 + 1 Dots - PMMA - 8x1mm 16°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R223	405 - 635		239
70119367	DOE223-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE 2 x 2 + 1 Dots - PMMA - 8x1mm 16° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R223	405 - 635		239
70119398	DOE223-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE 2 x 2 + 1 Dots - PMMA - 8x1mm 16°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R223	405 - 635		239
70111262	DOE227-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE Solid Line PC - 8x1,2mm 40° with power supply, 3V DC, Ø16x90mm, Laser Class 2 with DOE-DE-R227	600 - 730		244
70112009	DOE227-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE Solid Line PC - 8x1,2mm 40°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R227	600 - 730		244
70111637	DOE227-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE Solid Line PC - 8x1,2mm 40° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R227	600 - 730		244
70112405	DOE227-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE Solid Line PC - 8x1,2mm 40°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R227	600 - 730		244
70110975	DOE233-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE 7 Lines (Square Area) - PC - 8x1,2mm 30° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R233	530 - 670		260
70111705	DOE233-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE 7 Lines (Square Area) - PC - 8x1,2mm 30°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R233	530 - 670		260
70111330	DOE233-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE 7 Lines (Square Area) - PC - 8x1,2mm 30° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R233	530 - 670		260
70112122	DOE233-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE 7 Lines (Square Area) - PC - 8x1,2mm 30°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R233	530 - 670		260
70111248	DOE234-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE Viewfinder - PC - 8x1,2mm 46° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R234	530 - 670		250
70111989	DOE234-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE Viewfinder - PC - 8x1,2mm 46°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R234	530 - 670		250

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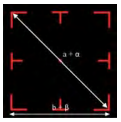
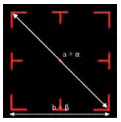
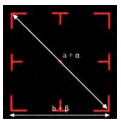
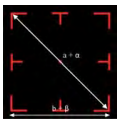
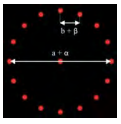
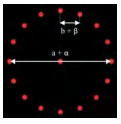
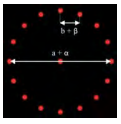
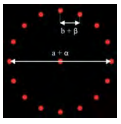
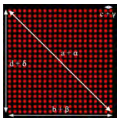
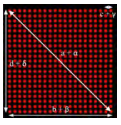
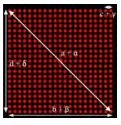
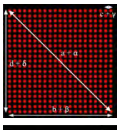
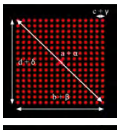
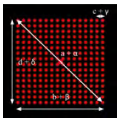
Order Number	Partnumber	Description	Optimal Wavelength range nm	DOE Picture	Page
70111613	DOE234-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE Viewfinder - PC - 8x1,2mm 46° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R234	530 - 670		250
70112382	DOE234-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE Viewfinder - PC - 8x1,2mm 46°, 5V DC, Ø10x22mm, Laser Class 1 with DOE-DE-R234	530 - 670		250
70114942	DOE234-635-5-6(10X22)-F300	DOE Laser Module 635nm, red, 5mW, DOE Viewfinder - PC - 8x1,2mm 46°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R234	530 - 670		250
70112474	DOE234-635-5-6(10X22)-F750	DOE Laser Module 635nm, red, 5mW, DOE Viewfinder - PC - 8x1,2mm 46°, 5V DC, Ø10x22mm, Laser Class 1 with DOE-DE-R234			250
70125726	DOE238-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW,DOE SOLID LINE CIRCLE - PC - 8x2.1mm 3.5° , 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R238	600 - 800		238
70110982	DOE240-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE 1:16 DOT Circle - PC - 8x1,2mm 11° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R240	530 - 700		236
70111712	DOE240-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE 1:16 DOT Circle - PC - 8x1,2mm 11°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R240	530 - 700		236
70111347	DOE240-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE 1:16 DOT Circle - PC - 8x1,2mm 11° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R240	530 - 700		236
70112139	DOE240-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE 1:16 DOT Circle - PC - 8x1,2mm 11°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R240	530 - 700		236
70110999	DOE241-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE 21x21 DOTS - PC - 8x1,2mm 6.7° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R241	560 - 730		249
70111729	DOE241-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE 21x21 DOTS - PC - 8x1,2mm 6.7°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R241	560 - 730		249
70111354	DOE241-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE 21x21 DOTS - PC - 8x1,2mm 6.7° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R241	560 - 730		249
70112146	DOE241-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE 21x21 DOTS - PC - 8x1,2mm 6.7°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R241	560 - 730		249
70111002	DOE242-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE 16x16 DOTS - PC - 8x1,2mm 7° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R242	530 - 730		251
70111736	DOE242-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE 16x16 DOTS - PC - 8x1,2mm 7°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R242	530 - 730		251

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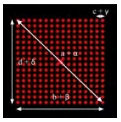
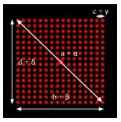
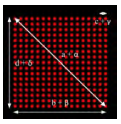
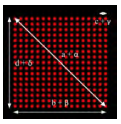
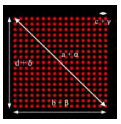
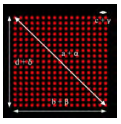
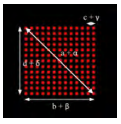
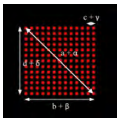
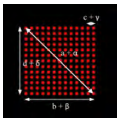
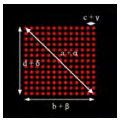
Order Number	Partnumber	Description	Optimal Wavelength range nm	DOE Picture	Page
70111361	DOE242-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE 16x16 DOTS - PC - 8x1,2mm 7° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R242	530 - 730		251
70112153	DOE242-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE 16x16 DOTS - PC - 8x1,2mm 7°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R242	530 - 730		251
70111019	DOE243-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE 17x17 Dots - PMMA - 8x1mm 7° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R243	550 - 720		256
70111743	DOE243-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE 17x17 Dots - PMMA - 8x1mm 7°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R243	550 - 720		256
70111378	DOE243-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE 17x17 Dots - PMMA - 8x1mm 7° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R243	550 - 720		256
70112160	DOE243-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE 17x17 Dots - PMMA - 8x1mm 7°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R243	550 - 720		256
70111026	DOE244-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE 13x13 DOTS - PC - 8x1,2mm 5.3° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R244	570 - 730		246
70111750	DOE244-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE 13x13 DOTS - PC - 8x1,2mm 5.3°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R244	570 - 730		246
70111385	DOE244-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE 13x13 DOTS - PC - 8x1,2mm 5.3° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R244	570 - 730		246
70112177	DOE244-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE 13x13 DOTS - PC - 8x1,2mm 5.3°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R244	570 - 730		246
70111033	DOE245-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE CROSS - PC - 8x1,2mm 10° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R245	570 - 690		253
70111767	DOE245-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE CROSS - PC - 8x1,2mm 10°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R245	570 - 690		253
70110708	DOE245-635-1-6(10X22)-F280	DOE Laser Module 635nm, red, 1mW, DOE CROSS - PC - 8x1,2mm 10°, 5V DC, Ø10x22mm, Laser Class 1 with DOE-DE-R245	570 - 690		253
70111392	DOE245-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE CROSS - PC - 8x1,2mm 10° with power supply, 3V DC, Ø16x90mm, Laser Class 2 with DOE-DE-R245	570 - 690		253
70110630	DOE245-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE CROSS - PC - 8x1,2mm 10°, 5V DC, Ø10x22mm, Laser Class 2 with DOE-DE-R245	570 - 690		253

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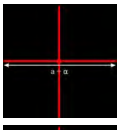
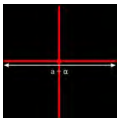
Order Number	Partnumber	Description	Optimal Wavelength range nm	DOE Picture	Page
70115000	DOE245-635-5-6(10X22)-F300	DOE Laser Module 635nm, red, 5mW, DOE CROSS - PC - 8x1,2mm 10°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R245	570 - 690		253
70111040	DOE246-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE Cross with surrounding high-contrast area - PC - 8x1,2mm 10° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R246	530 - 670		235
70111774	DOE246-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE Cross with surrounding high-contrast area - PC - 8x1,2mm 10°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R246	530 - 670		235
70111408	DOE246-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE Cross with surrounding high-contrast area - PC - 8x1,2mm 10° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R246	530 - 670		235
70112184	DOE246-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE Cross with surrounding high-contrast area - PC - 8x1,2mm 10°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R246	530 - 670		235
70111057	DOE247-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE CROSS - PC - 8x1,2mm 25° with power supply, 3V DC, Ø16x90mm, Laser Class 2 with DOE-DE-R247	600 - 800		254
70111781	DOE247-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE CROSS - PC - 8x1,2mm 25°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R247	600 - 800		254
70111415	DOE247-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE CROSS - PC - 8x1,2mm 25° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R247	600 - 800		254
70112191	DOE247-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE CROSS - PC - 8x1,2mm 25°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R247	600 - 800		254
70111064	DOE248-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE CROSS - PC - 8x1,2mm 37° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R248	530 - 550		241
70111798	DOE248-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE CROSS - PC - 8x1,2mm 37°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R248	530 - 550		241
70111422	DOE248-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE CROSS - PC - 8x1,2mm 37° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R248	530 - 550		241
70112207	DOE248-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE CROSS - PC - 8x1,2mm 37°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R248	530 - 550		241
70111071	DOE249-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE CROSS - PC - 8x1,2mm 45° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R249	500 - 640		239
70111804	DOE249-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE CROSS - PC - 8x1,2mm 45°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R249	500 - 640		239

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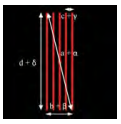
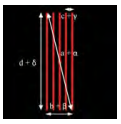
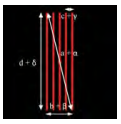
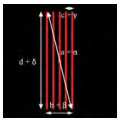
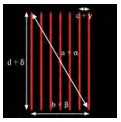
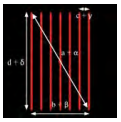
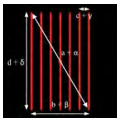
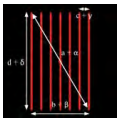
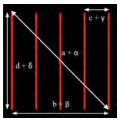
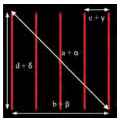
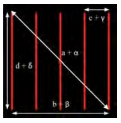
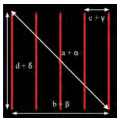
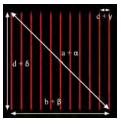
Order Number	Partnumber	Description	Optimal Wavelength range nm	DOE Picture	Page
70111439	DOE249-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE CROSS - PC - 8x1,2mm 45° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R249	500 - 640		239
70112214	DOE249-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE CROSS - PC - 8x1,2mm 45°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R249	500 - 640		239
70111088	DOE250-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE 5 LINES - PC - 8x1,2mm 29,3° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R250	580 - 690		250
70111811	DOE250-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE 5 LINES - PC - 8x1,2mm 29,3°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R250	580 - 690		250
70111446	DOE250-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE 5 LINES - PC - 8x1,2mm 29,3° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R250	580 - 690		250
70112221	DOE250-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE 5 LINES - PC - 8x1,2mm 29,3°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R250	580 - 690		250
70111095	DOE251-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE 7 LINES - PC - 8x1,2mm 8.6° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R251	530 - 670		234
70111828	DOE251-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE 7 LINES - PC - 8x1,2mm 8.6°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R251	530 - 670		234
70111453	DOE251-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE 7 LINES - PC - 8x1,2mm 8.6° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R251	530 - 670		234
70112238	DOE251-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE 7 LINES - PC - 8x1,2mm 8.6°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R251	530 - 670		234
70111101	DOE252-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE 5 LINES - PC - 8x1,2mm 23.9° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R252	532 - 670		256
70111835	DOE252-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE 5 LINES - PC - 8x1,2mm 23.9°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R252	532 - 670		256
70111460	DOE252-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE 5 LINES - PC - 8x1,2mm 23.9° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R252	532 - 670		256
70112245	DOE252-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE 5 LINES - PC - 8x1,2mm 23.9°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R252	532 - 670		256
70111118	DOE253-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE 11 LINES - PC - 8x1,2mm 41° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R253	530 - 670		233

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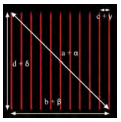
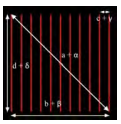
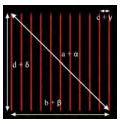
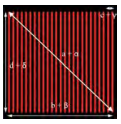
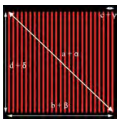
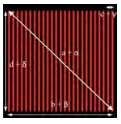
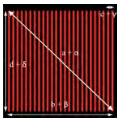
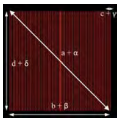
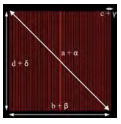
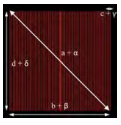
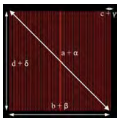
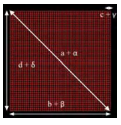
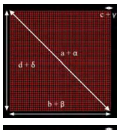
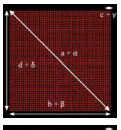
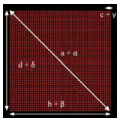
Order Number	Partnumber	Description	Optimal Wavelength range nm	DOE Picture	Page
70111842	DOE253-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE 11 LINES - PC - 8x1,2mm 41°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R253	530 - 670		233
70111477	DOE253-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE 11 LINES - PC - 8x1,2mm 41° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R253	530 - 670		233
70112252	DOE253-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE 11 LINES - PC - 8x1,2mm 41°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R253	530 - 670		233
70111125	DOE254-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE 25 LINES - PC - 8x1,2mm 37° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R254	530 - 670		252
70111859	DOE254-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE 25 LINES - PC - 8x1,2mm 37°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R254	530 - 670		252
70111484	DOE254-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE 25 LINES - PC - 8x1,2mm 37° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R254	530 - 670		252
70112269	DOE254-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE 25 LINES - PC - 8x1,2mm 37°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R254	530 - 670		252
70111132	DOE255-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE 65Lines (Square Area, Central Line Thicker) PC 8x1.2mm 25.8° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R255	530 - 670		247
70111866	DOE255-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE 65Lines (Square Area, Central Line Thicker) PC 8x1.2mm 25.8°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R255	530 - 670		247
70111491	DOE255-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE 65Lines (Square Area, Central Line Thicker) PC 8x1.2mm 25.8° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R255	530 - 670		247
70112276	DOE255-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE 65Lines (Square Area, Central Line Thicker) PC 8x1.2mm 25.8°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R255	530 - 670		247
70111149	DOE256-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE Square Grid 51x51 Lines PC 8x1.2mm 31,5° with power supply, 3V DC, Ø16x90mm, Laser Class 1 with DOE-DE-R256	530 - 660		240
70111873	DOE256-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE Square Grid 51x51 Lines PC 8x1.2mm 31,5°, 5V DC, Ø10x22mm, Laser Class 1 with DOE-DE-R256	530 - 660		240
70111507	DOE256-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE Square Grid 51x51 Lines PC 8x1.2mm 31,5° with power supply, 3V DC, Ø16x90mm, Laser Class 1 with DOE-DE-R256	530 - 660		240
70112283	DOE256-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE Square Grid 51x51 Lines PC 8x1.2mm 31,5°, 5V DC, Ø10x22mm, Laser Class 1 with DOE-DE-R256	530 - 660		240

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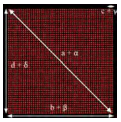
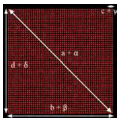
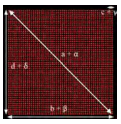
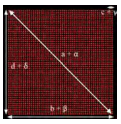
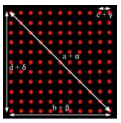
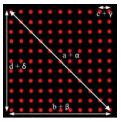
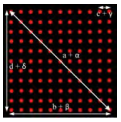
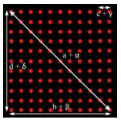
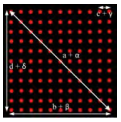
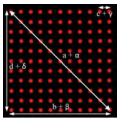
Order Number	Partnumber	Description	Optimal Wavelength range nm	DOE Picture	Page
70111156	DOE257-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE 51x51 Dots PC 8x1.2mm 31,5° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R257	530 - 670		248
70111880	DOE257-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE 51x51 Dots PC 8x1.2mm 31,5°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R257	530 - 670		248
70111514	DOE257-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE 51x51 Dots PC 8x1.2mm 31,5° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R257	530 - 670		248
70112290	DOE257-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE 51x51 Dots PC 8x1.2mm 31,5°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R257	530 - 670		248
70111163	DOE258-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE 11x11 Dots PC 8x1.2mm 38,8° with power supply, 3V DC, Ø16x90mm, Laser Class 2 with DOE-DE-R258	590 - 690		257
70111897	DOE258-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE 11x11 Dots PC 8x1.2mm 38,8°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R258	590 - 690		257
70111521	DOE258-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE 11x11 Dots PC 8x1.2mm 38,8° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R258	590 - 690		257
70112306	DOE258-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE 11x11 Dots PC 8x1.2mm 38,8°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R258	590 - 690		257
70124262	DOE258-635-5-6(10X22)-F300	DOE Laser Module 635nm, red, 5mW, DOE 11x11 Dots PC 8x1.2mm 38,8°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R258, Focus 300mm	590 - 690		257
70112832	DOE258-635-5-6(10X22)-F700	DOE Laser Module 635nm, red, 5mW, DOE 11x11 Dots PC 8x1.2mm 38,8°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R258	590 - 690		257
70110807	DOE259-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE 5 Rings PC 8x1.2mm 28,2° with power supply, 3V DC, Ø16x90mm, Laser Class 1 with DOE-DE-R259	530 - 700		247
70111903	DOE259-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE 5 Rings PC 8x1.2mm 28,2°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R259	530 - 700		247
70111538	DOE259-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE 5 Rings PC 8x1.2mm 28,2° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R259	530 - 700		247
70112313	DOE259-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE 5 Rings PC 8x1.2mm 28,2°, 5V DC, Ø10x22mm, Laser Class 1 with DOE-DE-R259	530 - 700		247
70114249	DOE259-635-5-6(10X22)-F40	DOE Laser Module 635nm, red, 5mW, DOE 5 Rings PC 8x1.2mm 28,2°, 5V DC, Ø10x22mm, Laser Class 1 with DOE-DE-R259	530 - 700		247

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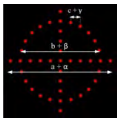
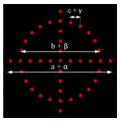
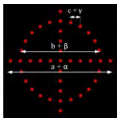
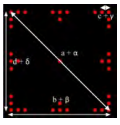
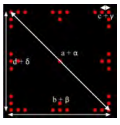
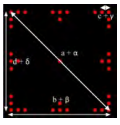
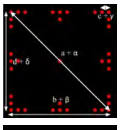
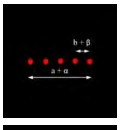
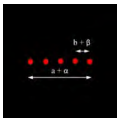
Order Number	Partnumber	Description	Optimal Wavelength range nm	DOE Picture	Page
70124255	DOE259-635-5-6(10X22)F300	DOE Laser Module 635nm, red, 5mW, DOE 5 Rings PC 8x1.2mm 28,2°, 5V DC, Ø10x22mm, Laser Class 1 with DOE-DE-R259, Focus 300mm	530 - 700		247
70110814	DOE260-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE Viewfinder (Circle + Cross) PC - 8x1,2mm 20,2° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R260	570 - 750		259
70111910	DOE260-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE Viewfinder (Circle + Cross) PC - 8x1,2mm 20,2°, 5V DC, Ø10x22mm, Laser Class 1M with DOE-DE-R260	570 - 750		259
70114782	DOE260-635-5-3(16X90)-F1000-NT	DOE Laser Module 635nm, red, 5mW, DOE Viewfinder (Circle + Cross) PC - 8x1,2mm 20,2° with power supply, 3V DC, Ø16x90mm, Laser Class 1M with DOE-DE-R260	570 - 750		259
70111545	DOE260-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE Viewfinder (Circle + Cross) PC - 8x1,2mm 20,2° with power supply, 3V DC, Ø16x90mm, Laser Class 2 with DOE-DE-R260	570 - 750		259
70112320	DOE260-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE Viewfinder (Circle + Cross) PC - 8x1,2mm 20,2°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R260	570 - 750		259
70111927	DOE261-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE Viewfinder (Dot Circle + Cross) PC - 8x1,2mm 6,2°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R261	570 - 750		255
70111552	DOE261-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE Viewfinder (Dot Circle + Cross) PC - 8x1,2mm 6,2° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R261	570 - 750		255
70112337	DOE261-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE Viewfinder (Dot Circle + Cross) PC - 8x1,2mm 6,2°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R261	570 - 750		255
70111194	DOE262-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE Viewfinder (Dot Square) PC - 8x1,2mm 11,8° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R262	480 - 670		242
70111934	DOE262-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE Viewfinder (Dot Square) PC - 8x1,2mm 11,8°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R262	480 - 670		242
70111569	DOE262-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE Viewfinder (Dot Square) PC - 8x1,2mm 11,8° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R262	480 - 670		242
70112344	DOE262-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE Viewfinder (Dot Square) PC - 8x1,2mm 11,8°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R262	480 - 670		242
70111200	DOE263-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE 1:5 Dot Line PC 8x1.2mm 5,9° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R263	590 - 800		246
70111941	DOE263-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE 1:5 Dot Line PC 8x1.2mm 5,9°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R263	590 - 800		246

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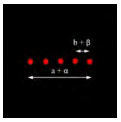
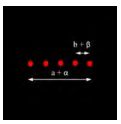
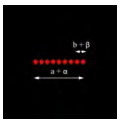
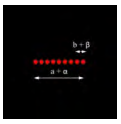
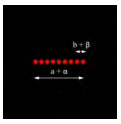
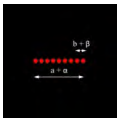
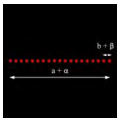
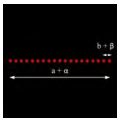
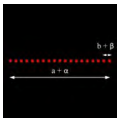
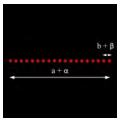
Order Number	Partnumber	Description	Optimal Wavelength range nm	DOE Picture	Page
70111576	DOE263-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE 1:5 Dot Line PC 8x1.2mm 5,9° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R263	590 - 800		246
70112351	DOE263-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE 1:5 Dot Line PC 8x1.2mm 5,9°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R263	590 - 800		246
70111217	DOE264-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE 1:9 Dot Line PC 8x1.2mm 0,85° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R264	630 - 780		253
70111958	DOE264-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE 1:9 Dot Line PC 8x1.2mm 0,85°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R264	630 - 780		253
70111583	DOE264-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE 1:9 Dot Line PC 8x1.2mm 0,85° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R264	630 - 780		253
70112368	DOE264-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE 1:9 Dot Line PC 8x1.2mm 0,85°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R264	630 - 780		253
70111224	DOE265-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE 1:19 Dot Line PC 8x1.2mm 13,3° with power supply, 3V DC, Ø16x90mm, Laser Class 2 with DOE-DE-R265	530 - 670		238
70111965	DOE265-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE 1:19 Dot Line PC 8x1.2mm 13,3°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R265	530 - 670		238
70111590	DOE265-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE 1:19 Dot Line PC 8x1.2mm 13,3° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R265	530 - 670		238
70112375	DOE265-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE 1:19 Dot Line PC 8x1.2mm 13,3°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R265	530 - 670		238
70111255	DOE266-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE Solid Line PC - 8x1,2mm 5° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R266	690 - 810		240
70111996	DOE266-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE Solid Line PC - 8x1,2mm 5°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R266	690 - 810		240
70118070	DOE266-635-1-6(10X22)-F300	DOE Laser Module 635nm, red, 1mW, DOE Solid Line PC - 8x1,2mm 5°, 5V DC, Ø10x22mm, Laser Class 1 with DOE-DE-R266	690 - 810		240
70111620	DOE266-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE Solid Line PC - 8x1,2mm 5° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R266	690 - 810		240
70112399	DOE266-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE Solid Line PC - 8x1,2mm 5°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R266	690 - 810		240

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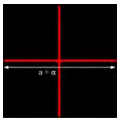
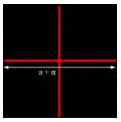
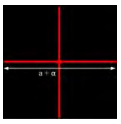
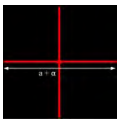
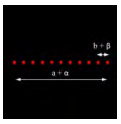
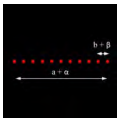
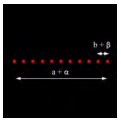
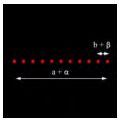
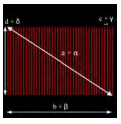
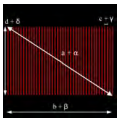
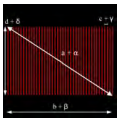
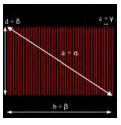
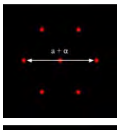
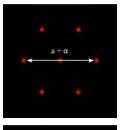
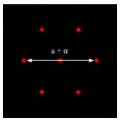
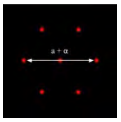
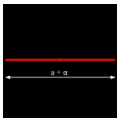
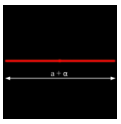
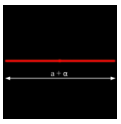
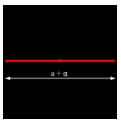
Order Number	Partnumber	Description	Optimal Wavelength range nm	DOE Picture	Page
70118841	DOE280-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE CROSS - PC - 8x1,2mm 60° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R280	580 - 690		235
70118827	DOE280-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE CROSS - PC - 8x1,2mm 60°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R280	580 - 690		235
70118803	DOE280-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE CROSS - PC - 8x1,2mm 60° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R280	580 - 690		235
70118834	DOE280-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE CROSS - PC - 8x1,2mm 60°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R280	580 - 690		235
70119466	DOE281-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE 1:11 Dot Line - PMMA - 8x1mm 16° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R281	600 - 730		234
70119442	DOE281-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE 1:11 Dot Line - PMMA - 8x1mm 16°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R281	600 - 730		234
70119428	DOE281-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE 1:11 Dot Line - PMMA - 8x1mm 16° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R281	600 - 730		234
70119459	DOE281-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE 1:11 Dot Line - PMMA - 8x1mm 16°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R281	600 - 730		234
70119138	DOE284-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE 41 LINES - PC - 8x1,2mm 63° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R284	600 - 700		252
70119114	DOE284-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE 41 LINES - PC - 8x1,2mm 63°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R284	600 - 700		252
70119091	DOE284-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE 41 LINES - PC - 8x1,2mm 63° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R284	600 - 700		252
70119121	DOE284-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE 41 LINES - PC - 8x1,2mm 63°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R284	600 - 700		252
70118988	DOE285-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE 41 LINES - PC - 8x1,2mm 63° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R285	600 - 700		248
70118964	DOE285-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE 41 LINES - PC - 8x1,2mm 63°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R285	600 - 700		248
70118940	DOE285-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE 41 LINES - PC - 8x1,2mm 63° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R285	600 - 700		248

DOE Optiken und Module | DOE Optics and Modules

Order Number	Partnumber	Description	Optimal Wavelength range nm	DOE Picture	Page
70118971	DOE285-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE 41 LINES - PC - 8x1,2mm 63°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R285	600 - 700		248
70119084	DOE287-532-5-3(16X90)-NT	DOE Laser Module 532nm, green, 5mW, DOE 41 LINES - PC - 8x1,2mm 63° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R287	600 - 700		241
70119060	DOE287-635-1-6(10X22)	DOE Laser Module 635nm, red, 1mW, DOE 41 LINES - PC - 8x1,2mm 63°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R287	600 - 700		241
70119046	DOE287-635-5-3(16X90)-NT	DOE Laser Module 635nm, red, 5mW, DOE 41 LINES - PC - 8x1,2mm 63° with power supply, 3V DC, Ø16x90mm, Laser Class 2M with DOE-DE-R287	600 - 700		241
70119077	DOE287-635-5-6(10X22)	DOE Laser Module 635nm, red, 5mW, DOE 41 LINES - PC - 8x1,2mm 63°, 5V DC, Ø10x22mm, Laser Class 2M with DOE-DE-R287	600 - 700		241

Diffractive Optical Element DOE Solid Line PC - 8x1,2mm 20° @633nm

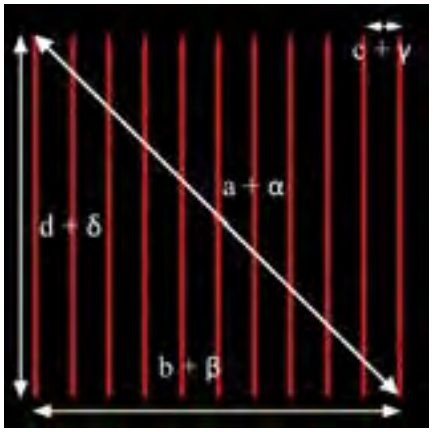
Size	Ø12x4mm
a	35.2mm
α	20°

Pattern size at 100mm distance.
Pattern angels at 635nm.

Figure 1

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70127720	DOE-DE-R283										Ø12x4	

Diffractive Optical Element DOE 11 LINES - PC - 8x1,2mm 41.8° @635nm



Size	Ø12x4mm
a	76.4mm
b	54mm
c	5.4mm
d	54mm
α	41.8°
β	30.2°
γ	3°
δ	30.2°

Pattern size at 100mm distance.
Pattern angels at 635nm.

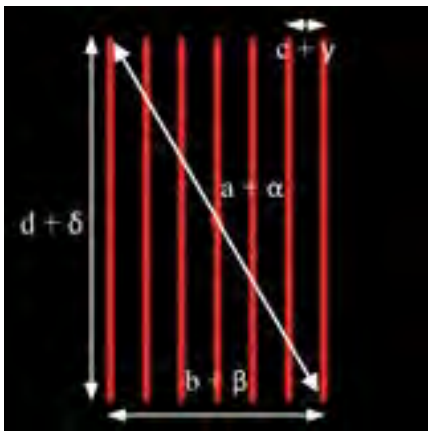
Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70108095	DOE-DE-R253										Ø12x4	
70111118	DOE253-532-5-3(16X90)-NT	532	5	2M	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70111842	DOE253-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70111477	DOE253-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70112252	DOE253-635-5-6(10X22)	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

Diffractive Optical Element DOE 7 LINES - PC - 8x1,2mm 8.9° @650nm



Size	Ø12x4mm
a	15.5mm
b	9mm
c	1.5mm
d	12.6mm
α	8.9°
β	5.2°
γ	0.8°
δ	7.2°

Pattern size at 100mm distance.
Pattern angels at 635nm.

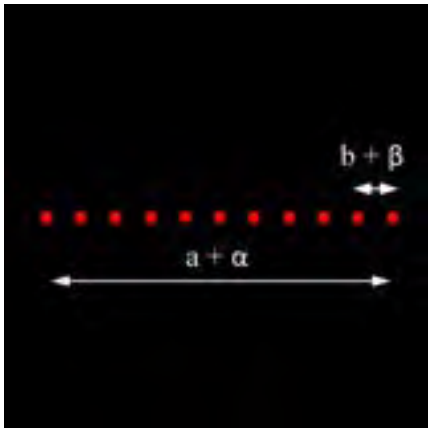
Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70108071	DOE-DE-R251										Ø12x4	
70111095	DOE251-532-5-3(16X90)-NT	532	5	2M	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70111828	DOE251-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70111453	DOE251-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70112238	DOE251-635-5-6(10X22)	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

Diffractive Optical Element DOE 1:11 Dot Line - PMMA - 8x1mm 16.5° @650nm



Size	Ø12x4mm
a	28.9mm
b	2.9mm
α	16.5°
β	1.6°

Pattern size at 100mm distance.
Pattern angels at 635nm.

Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70114300	DOE-DE-R281										Ø12x4	
70119466	DOE281-532-5-3(16X90)-NT	532	5	2M	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70119442	DOE281-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70119428	DOE281-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70119459	DOE281-635-5-6(10X22)	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

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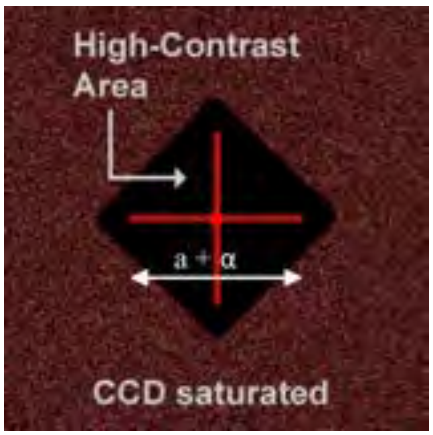
Diffractive Optical Element DOE Cross with surrounding high-contrast area - PC - 8x1,2mm



Size	Ø12x4mm
a	17.5mm
α	10°

Pattern size at 100mm distance.
Pattern angels at 635nm.

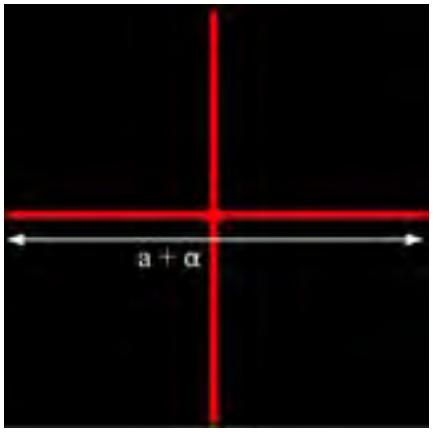
Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70108026	DOE-DE-R246										Ø12x4	
70111040	DOE246-532-5-3(16X90)-NT	532	5	2M	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70111774	DOE246-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70111408	DOE246-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70112184	DOE246-635-5-6(10X22)	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

Diffractive Optical Element DOE CROSS - PC - 8x1,2mm 60° @635nm



Size	Ø12x4mm
a	115.5mm
α	60°

Pattern size at 100mm distance.
Pattern angels at 635nm.

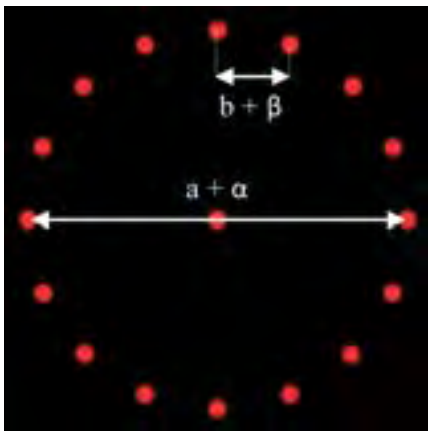
Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70113143	DOE-DE-R280										Ø12x4	
70118841	DOE280-532-5-3(16X90)-NT	532	5	2M	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70118827	DOE280-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70118803	DOE280-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70118834	DOE280-635-5-6(10X22)	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

Diffractive Optical Element DOE 1:16 DOT Circle - PC - 8x1,2mm 10.8° @635nm



Size	Ø12x4mm
a	18.9mm
b	3.7mm
α	10.8°
β	2.1°

Pattern size at 100mm distance.
Pattern angels at 635nm.

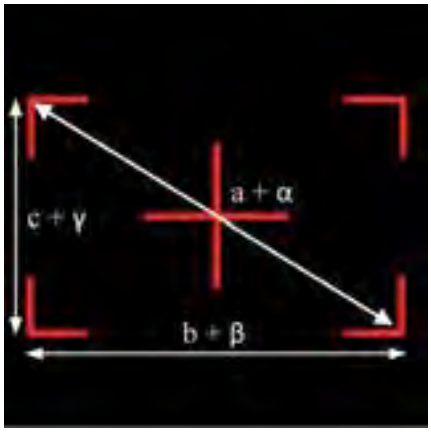
Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70107968	DOE-DE-R240										Ø12x4	
70110982	DOE240-532-5-3(16X90)-NT	532	5	2M	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70111712	DOE240-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70111347	DOE240-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70112139	DOE240-635-5-6(10X22)	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

Diffractive Optical Element DOE Viewfinder - PC - 8x1,2mm 18.2° @645nm



Size	Ø12x4mm
a	32mm
b	27mm
c	17.7mm
α	18.2°
β	15.5°
γ	10.1°

Pattern size at 100mm distance.
Pattern angels at 635nm.

Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70107913	DOE-DE-R215										Ø12x4	
70110784	DOE215-532-5-3(16X90)-NT	532	5	2	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70111668	DOE215-635-1-6(10X22)	635	1	1	5	30	✓	VDD(+)	100	3000	Ø10x22	
70112085	DOE215-635-5-6(10X22)	635	5	2	5	45	✓	VDD(+)	100	3000	Ø10x22	
70111293	DOE215-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓

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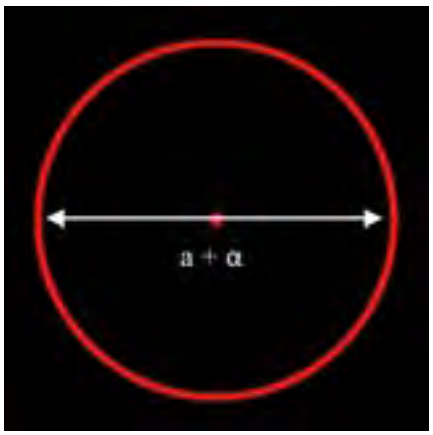
Diffractive Optical Element DOE Circle - PMMA - 8x1mm 31,2° @592nm



Size	Ø12x4mm
Material	aluminium
a	55.8mm
α	31.2°

Pattern size at 100mm distance.
Pattern angels at 635nm.

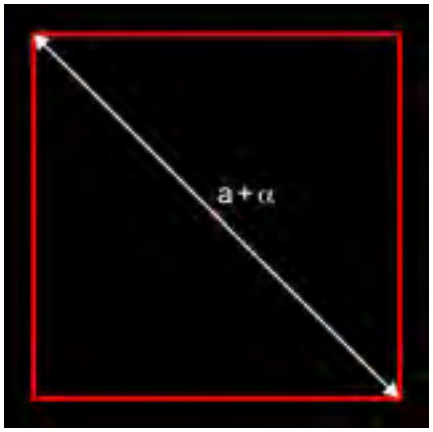
Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70107937	DOE-DE-R219										Ø12x4	
70110951	DOE219-532-5-3(16X90)-NT	532	5	2M	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70111682	DOE219-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70110791	DOE219-635-5-3(16X90)-NT	635	5	1	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70112108	DOE219-635-5-6(10X22)	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

Diffractive Optical Element DOE SOLID LINE SQUARE - PC - 8x2.1mm 45° @633nm



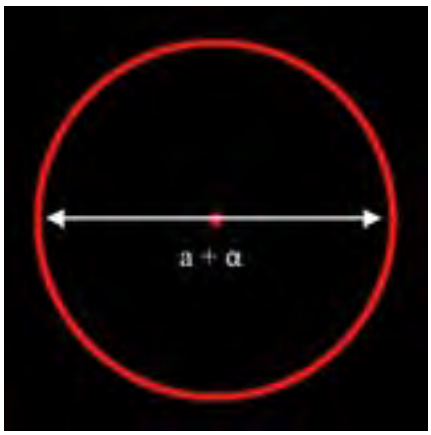
Size	Ø12x4mm
a	85mm
α	46°

Pattern size at 100mm distance.
Pattern angels at 635nm.

Figure 1

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70124163	DOE-DE-R236										Ø12x4	

Diffractive Optical Element DOE SOLID LINE CIRCLE - PC - 8x2.1mm 3.4° @520nm



Size	Ø12x4mm
a	6.1mm
α	6.1°

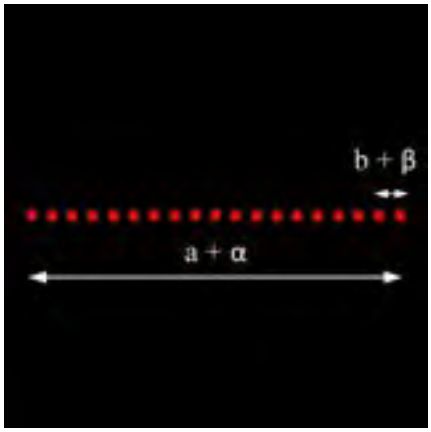
Pattern size at 100mm distance.
Pattern angels at 635nm.

Figure 1

Figure 2

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70124156	DOE-DE-R238										Ø12x4	
70125726	DOE238-635-5-6(10X22)	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

Diffractive Optical Element DOE 1:19 Dot Line PC 8x1.2mm 13,7° @650nm 500-540 nm; 630



Size	Ø12x4mm
a	24mm
b	1.3mm
α	13.7°
β	0.8°

Pattern size at 100mm distance.
Pattern angels at 635nm.

Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70108224	DOE-DE-R265										Ø12x4	
70111224	DOE265-532-5-3(16X90)-NT	532	5	2	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70111965	DOE265-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70111590	DOE265-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70112375	DOE265-635-5-6(10X22)	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

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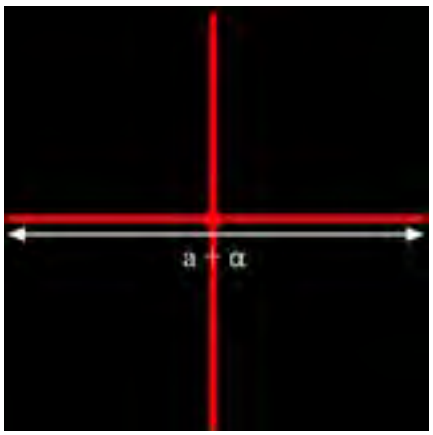
Diffractive Optical Element DOE CROSS - PC - 8x1,2mm 45° @633nm



Size	Ø12x4mm
a	83mm
α	45°

Pattern size at 100mm distance.
Pattern angels at 635nm.

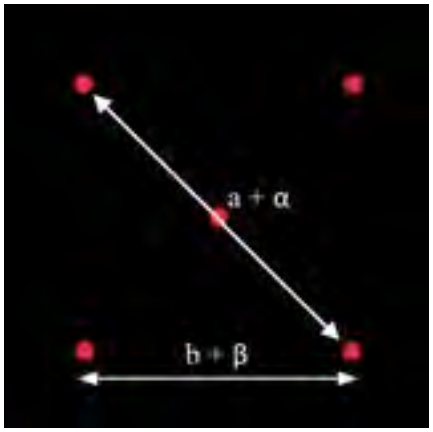
Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70108057	DOE-DE-R249										Ø12x4	
70111071	DOE249-532-5-3(16X90)-NT	532	5	2M	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70111804	DOE249-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70111439	DOE249-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70112214	DOE249-635-5-6(10X22)	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

Diffractive Optical Element DOE 2 x 2 + 1 Dots - PMMA - 8x1mm 16.1° @635nm



Size	Ø12x4mm
a	23.3mm
b	19.9mm
c	19.9mm
d	19.9mm
α	16.1°
β	11.4°
γ	11.4°
δ	11.4°

Pattern size at 100mm distance.
Pattern angels at 635nm.

Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70114294	DOE-DE-R223										Ø12x4	
70119404	DOE223-532-5-3(16X90)-NT	532	5	2M	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70119381	DOE223-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70119367	DOE223-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70119398	DOE223-635-5-6(10X22)	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

Diffractive Optical Element DOE Solid Line PC - 8x1,2mm 5° @633nm

Size	Ø12x4mm
a	8.7mm
α	5°

Pattern size at 100mm distance.
Pattern angels at 635nm.

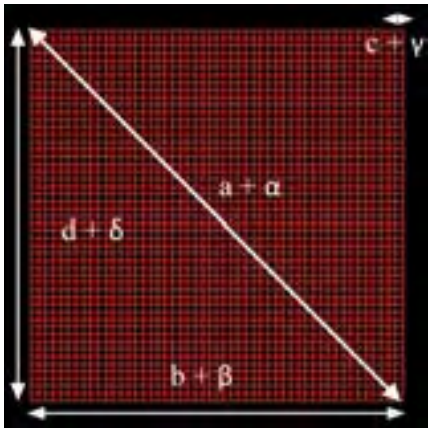
Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70110364	DOE-DE-R266										Ø12x4	
70111255	DOE266-532-5-3(16X90)-NT	532	5	2M	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70118070	DOE266-635-1-6(10X22)-F300	635	1	1	5	30	✓	VDD(+)	100	3000	Ø10x22	
70111996	DOE266-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70111620	DOE266-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70112399	DOE266-635-5-6(10X22)	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

Diffractive Optical Element DOE Square Grid 51x51 Lines PC 8x1.2mm 31°@660nm



Size	Ø12x4mm
a	39mm
b	39mm
c	55mm
d	0.77mm
α	31°
β	22°
γ	22°
δ	0.44°

Pattern size at 100mm distance.
Pattern angels at 635nm.

Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70108132	DOE-DE-R256										Ø12x4	
70111149	DOE256-532-5-3(16X90)-NT	532	5	1	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70111873	DOE256-635-1-6(10X22)	635	1	1	5	30	✓	VDD(+)	100	3000	Ø10x22	
70111507	DOE256-635-5-3(16X90)-NT	635	5	1	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70112283	DOE256-635-5-6(10X22)	635	5	1	5	45	✓	VDD(+)	100	3000	Ø10x22	

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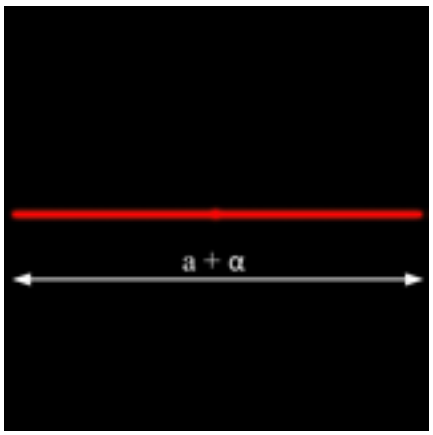
Diffractive Optical Element DOE 1 Solid Line -PMMA - 8x1 mm 45.5° @660nm



Size	Ø12x4mm
a	83.9mm
α	45.5°

Pattern size at 100mm distance.
Pattern angels at 635nm.

Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70118674	DOE-DE-R287										Ø12x4	
70119084	DOE287-532-5-3(16X90)-NT	532	5	2M	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70119060	DOE287-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70119046	DOE287-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70119077	DOE287-635-5-6(10X22)	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

Diffractive Optical Element DOE CROSS - PC - 8x1,2mm 37° @645nm

Size	Ø12x4mm
a	66.8mm
α	37°

Pattern size at 100mm distance.
Pattern angels at 635nm.

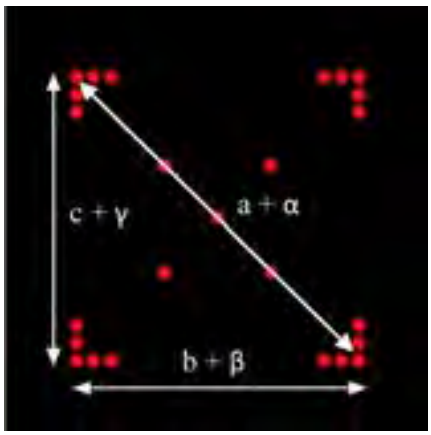
Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70108040	DOE-DE-R248										Ø12x4	
70111064	DOE248-532-5-3(16X90)-NT	532	5	2M	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70111798	DOE248-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70111422	DOE248-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70112207	DOE248-635-5-6(10X22)	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

Diffractive Optical Element DOE Viewfinder (Dot Square) PC - 8x1,2mm 10.1° @488nm



Size	Ø12x4mm
a	17.7mm
b	12.5mm
c	12.5mm
α	10.1°
β	7.1°
γ	7.1°

Pattern size at 100mm distance.
Pattern angels at 635nm.

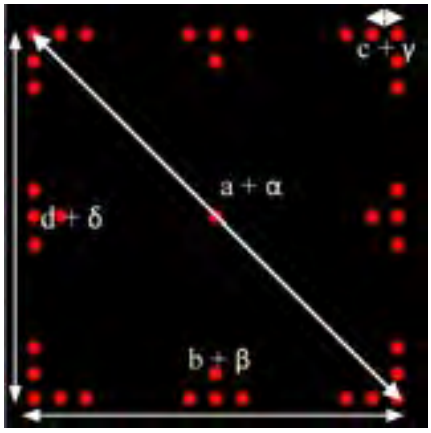
Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70113150	DOE-DE-R216										Ø12x4	
70118896	DOE216-532-5-3(16X90)-NT	532	5	2M	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70118872	DOE216-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70118858	DOE216-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70118889	DOE216-635-5-6(10X22)	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

Diffractive Optical Element DOE Viewfinder (Dot Square) PC - 8x1,2mm 10° @532nm



Size	Ø12x4mm
a	12.3mm
b	12.3mm
c	17.4mm
d	0.5mm
α	7°
β	7°
γ	10°
δ	0.3°

Pattern size at 100mm distance.
Pattern angels at 635nm.

Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70108194	DOE-DE-R262										Ø12x4	
70111194	DOE262-532-5-3(16X90)-NT	532	5	2M	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70111934	DOE262-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70111569	DOE262-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70112344	DOE262-635-5-6(10X22)	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

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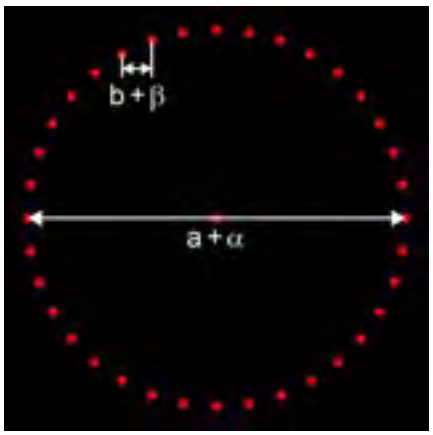
Diffractive Optical Element DOE 1 : 36 DOT CIRCLE - PC - 8x2.1mm 3.5° @532nm



Size	Ø12x4mm
a	6.1mm
b	0.5mm
α	3.5°
β	0.3°

Pattern size at 100mm distance.
Pattern angels at 635nm.

Figure 1

Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Cable length	Lifetime	Size	Power Supply included
		nm	mW		V DC	mA			mm	h	mm	
70124149	DOE-DE-R229										Ø12x4	

Diffractive Optical Element DOE CROSS - 2 - PC - 8x2.1mm 2° @645nm

Size	Ø8x1.2mm
a	3.4mm
α	2°

Pattern size at 100mm distance.
Pattern angels at 635nm.

Figure 1

Figure 2

Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Operating Voltage	Operating Current	Protection Lens	Potential of Housing	Cable length	Lifetime	Size	Power Supply included
		nm	mW		V DC	mA			mm	h	mm	
70124095	DOE-DE-R214										Ø8x1.2	
70125696	DOE214-635-5-6(10X22)	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

Diffractive Optical Element DOE Cross - PMMA - 8x1mm 15° @640nm

Size	Ø12x4mm
a	26.3mm
α	15°

Pattern size at 100mm distance.
Pattern angels at 635nm.

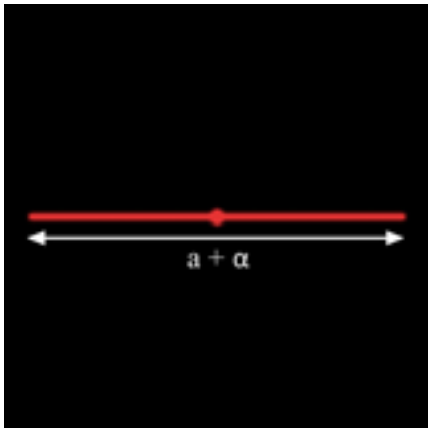
Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70107920	DOE-DE-R218										Ø12x4	
70110944	DOE218-532-5-3(16X90)-NT	532	5	2M	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70111675	DOE218-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70112092	DOE218-635-5-6(10X22)	635	5	2	5	45	✓	VDD(+)	100	3000	Ø10x22	
70111309	DOE218-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓

Diffractive Optical Element DOE Solid Line PC - 8x1,2mm 40°



Size	Ø12x4mm
a	73mm
α	40°

Pattern size at 100mm distance.
Pattern angels at 635nm.

Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70110371	DOE-DE-R227										Ø12x4	
70111262	DOE227-532-5-3(16X90)-NT	532	5	2	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70112009	DOE227-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70111637	DOE227-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70112405	DOE227-635-5-6(10X22)	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

Diffractive Optical Element DOE CROSS - 5 - PC - 8x2.1mm 5° @650nm

Size	Ø8x1.2mm
a	8.7mm
α	5°

Pattern size at 100mm distance.
Pattern angels at 635nm.

Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70124088	DOE-DE-R205										Ø8x1.2	
70111231	DOE205-532-5-3(16X90)-NT	532	5	2M	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70111972	DOE205-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70110753	DOE205-635-5-6(10X22)-F7000	635	5	2	5	45	✓	VDD(+)	100	3000	Ø10x22	
70110715	DOE205-635-5-6(10X22)	635	5	2	5	45	✓	VDD(+)	100	3000	Ø10x22	
70111606	DOE205-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓

Diffractive Optical Element DOE CROSS - 15 - PC - 8x2.1mm 15° @520nm

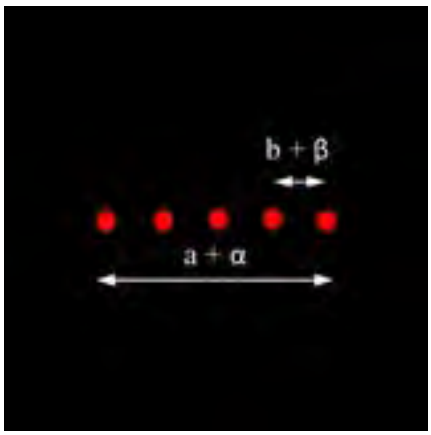
Size	Ø12x4mm
a	26.4mm
α	15°

Pattern size at 100mm distance.
Pattern angels at 635nm.

Figure 1

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70124125	DOE-DE-R289										Ø12x4	

Diffractive Optical Element DOE 1:5 Dot Line PC 8x1.2mm 6° @635nm



Size	Ø12x4mm
a	10.5mm
b	2.6mm
α	6°
β	1.5°

Pattern size at 100mm distance.
Pattern angels at 635nm.

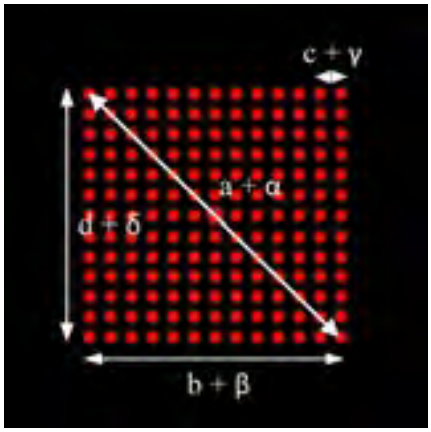
Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70108200	DOE-DE-R263										Ø12x4	
70111200	DOE263-532-5-3(16X90)-NT	532	5	2M	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70111941	DOE263-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70111576	DOE263-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70112351	DOE263-635-5-6(10X22)	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

Diffractive Optical Element DOE 13x13 DOTS - PC - 8x1,2mm 4.3° @635nm



Size	Ø12x4mm
a	7.4mm
b	5.3mm
c	0.4mm
d	5.3mm
α	4.3°
β	3°
γ	0.3°
δ	3°

Pattern size at 100mm distance.
Pattern angels at 635nm.

Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70108002	DOE-DE-R244										Ø12x4	
70111026	DOE244-532-5-3(16X90)-NT	532	5	2M	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70111750	DOE244-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70111385	DOE244-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70112177	DOE244-635-5-6(10X22)	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

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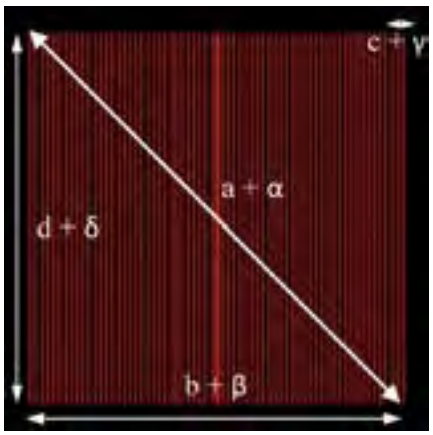
Diffractive Optical Element DOE 65Lines (Square Area, Central Line Thicker) PC 8x1.2mm 2



Size	Ø12x4mm
a	45.6mm
b	32.2mm
c	0.5mm
d	32.2mm
α	25.7°
β	18.3°
γ	0.3°
δ	18.3°

Pattern size at 100mm distance.
Pattern angels at 635nm.

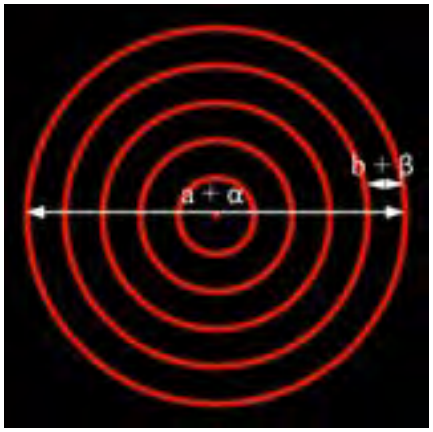
Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70108125	DOE-DE-R255										Ø12x4	
70111132	DOE255-532-5-3(16X90)-NT	532	5	2M	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70111866	DOE255-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70111491	DOE255-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70112276	DOE255-635-5-6(10X22)	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

Diffractive Optical Element DOE 5 Rings PC 8x1.2mm 29° @645nm



Size	Ø12x4mm
a	5.1mm
b	51mm
α	29°
β	2.8°

Pattern size at 100mm distance.
Pattern angels at 635nm.

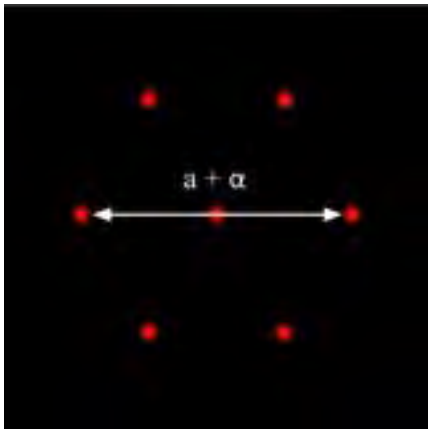
Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70108163	DOE-DE-R259										Ø12x4	
70110807	DOE259-532-5-3(16X90)-NT	532	5	1	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70111903	DOE259-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70112313	DOE259-635-5-6(10X22)	635	5	1	5	45	✓	VDD(+)	100	3000	Ø10x22	
70114249	DOE259-635-5-6(10X22)-F40	635	5	1	5	45	✓	VDD(+)	100	3000	Ø10x22	
70124255	DOE259-635-5-6(10X22)F300	635	5	1	5	45	✓	VDD(+)	100	3000	Ø10x22	
70111538	DOE259-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓

Diffractive Optical Element DOE Hexagon - PC - 8x1,2 mm 7.5° @780nm



Size	Ø12x4mm
a	13.1mm
α	7.5°

Pattern size at 100mm distance.
Pattern angels at 635nm.

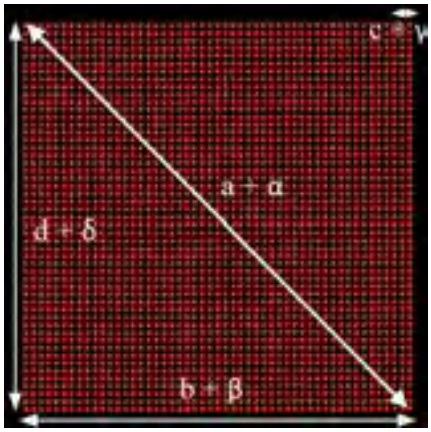
Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70118650	DOE-DE-R285										Ø12x4	
70118988	DOE285-532-5-3(16X90)-NT	532	5	2M	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70118964	DOE285-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70118940	DOE285-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70118971	DOE285-635-5-6(10X22)	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

Diffractive Optical Element DOE 51x51 Dots PC 8x1.2mm 31,8° @660nm



Size	Ø12x4mm
a	56.9mm
b	40.3mm
c	0.8mm
d	40.3mm
α	31.8°
β	22.8°
γ	0.5°
δ	22.8°

Pattern size at 100mm distance.
Pattern angels at 635nm.

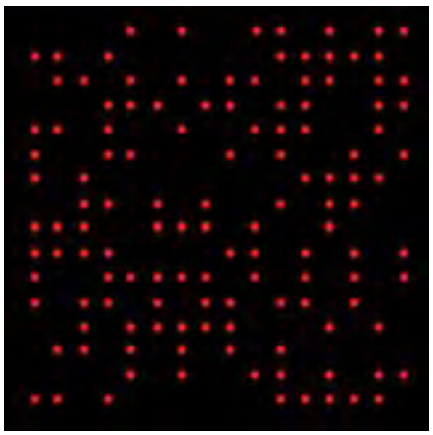
Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70108149	DOE-DE-R257										Ø12x4	
70111156	DOE257-532-5-3(16X90)-NT	532	5	2M	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70111880	DOE257-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70111514	DOE257-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70112290	DOE257-635-5-6(10X22)	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

Diffractive Optical Element DOE 33000-Dot Pseudo-Random Pattern (59.6°x41.7°@830nm



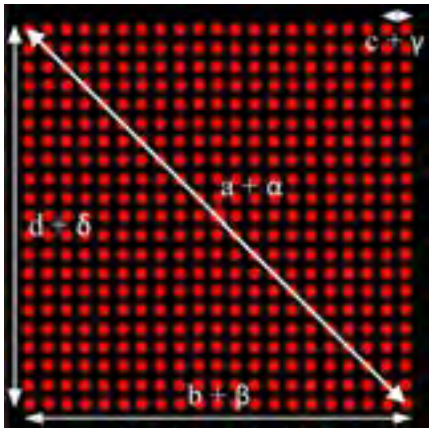
Size	Ø12x4mm
a	136.9mm
b	114.6mm
c	76.3mm
α	68.8°
β	59.6°
γ	41.7°

Pattern size at 100mm distance.
Pattern angels at 635nm.

Figure 1

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70124170	DOE-DE-R332										Ø12x4	

Diffractive Optical Element DOE 21x21 DOTS - PC - 8x1,2mm 6.8° @635nm



Size	Ø12x4mm
a	11.9mm
b	8.4mm
c	0.4mm
d	8.4mm
α	6.8°
β	4.8°
γ	0.2°
δ	4.8°

Pattern size at 100mm distance.
Pattern angels at 635nm.

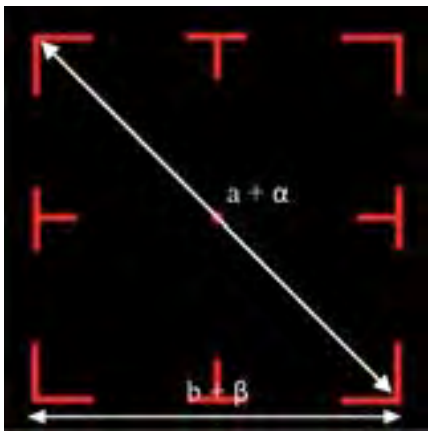
Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70107975	DOE-DE-R241										Ø12x4	
70110999	DOE241-532-5-3(16X90)-NT	532	5	2M	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70111729	DOE241-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70111354	DOE241-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70112146	DOE241-635-5-6(10X22)	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

Diffractive Optical Element DOE Viewfinder - PC - 8x1,2mm 47° @633nm



Size	Ø12x4mm
a	61mm
b	61mm
c	86mm
α	34°
β	34°
γ	47°

Pattern size at 100mm distance.
Pattern angels at 635nm.

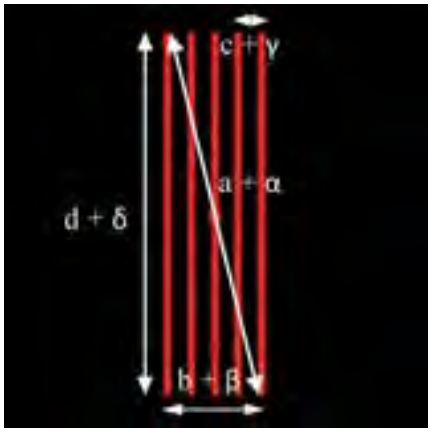
Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70110357	DOE-DE-R234										Ø12x4	
70111248	DOE234-532-5-3(16X90)-NT	532	5	2M	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70111989	DOE234-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70112474	DOE234-635-5-6(10X22)-F750	635	5	1	5	45	✓	VDD(+)	100	3000	Ø10x22	
70112382	DOE234-635-5-6(10X22)	635	5	1	5	45	✓	VDD(+)	100	3000	Ø10x22	
70111613	DOE234-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70114942	DOE234-635-5-6(10X22)-F300	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

Diffractive Optical Element DOE 5 LINES - PC - 8x1,2mm 30.8° @660nm



Size	Ø12x4mm
a	55mm
b	10.9mm
c	2.7mm
d	53.9mm
α	30.8°
β	6.2°
γ	1.6°
δ	30.2°

Pattern size at 100mm distance.
Pattern angels at 635nm.

Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70108064	DOE-DE-R250										Ø12x4	
70111088	DOE250-532-5-3(16X90)-NT	532	5	2M	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70111811	DOE250-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70111446	DOE250-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70112221	DOE250-635-5-6(10X22)	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

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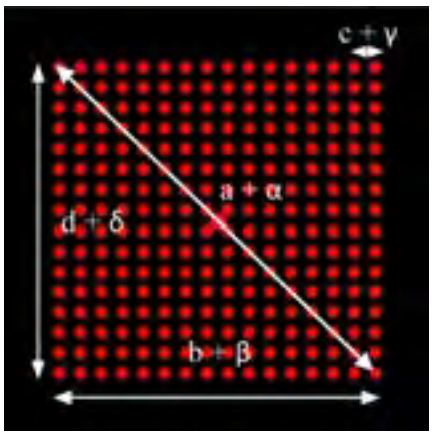
Diffractive Optical Element DOE 16x16 DOTS - PC - 8x1,2mm 7.1° @635nm



Size	Ø12x4mm
a	12.4mm
b	8.8mm
c	0.6mm
d	8.8mm
α	7.1°
β	5°
γ	0.3°
δ	5°

Pattern size at 100mm distance.
Pattern angels at 635nm.

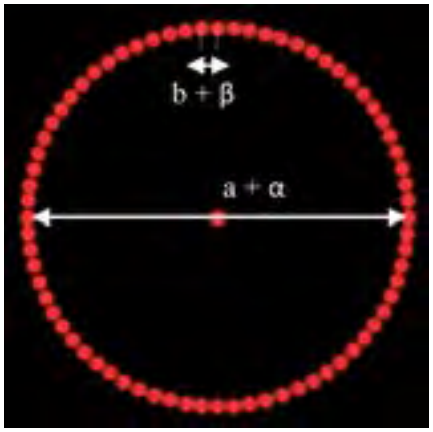
Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70107982	DOE-DE-R242										Ø12x4	
70111002	DOE242-532-5-3(16X90)-NT	532	5	2M	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70111736	DOE242-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70111361	DOE242-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70112153	DOE242-635-5-6(10X22)	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

Diffractive Optical Element DOE 1:72 DOT Circle - PMMA - 8x1mm 20.9° @532nm



Size	Ø12x4mm
a	36.9mm
b	1.6mm
α	20.9°
β	0.9°

Pattern size at 100mm distance.
Pattern angels at 635nm.

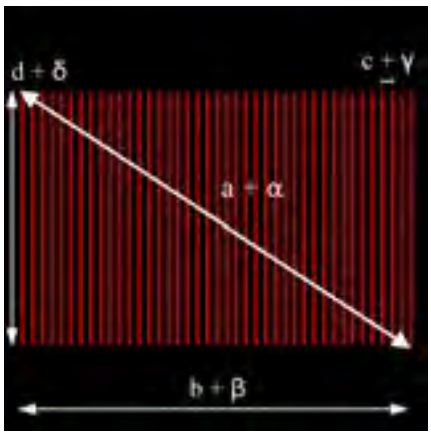
Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70107944	DOE-DE-R221										Ø12x4	
70110968	DOE221-532-5-3(16X90)-NT	532	5	2M	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70111699	DOE221-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70111323	DOE221-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70112115	DOE221-635-5-6(10X22)	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

Diffractive Optical Element DOE 41 LINES - PC - 8x1,2mm 67.4° @660nm



Size	Ø12x4mm
a	133.4mm
b	104mm
c	2.6mm
d	78mm
α	67.4°
β	54.9°
γ	1.4°
δ	42.6°

Pattern size at 100mm distance.
Pattern angels at 635nm.

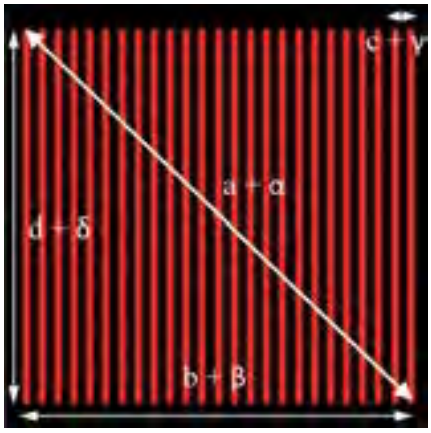
Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70118643	DOE-DE-R284										Ø12x4	
70119138	DOE284-532-5-3(16X90)-NT	532	5	2M	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70119114	DOE284-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70119091	DOE284-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70119121	DOE284-635-5-6(10X22)	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

Diffractive Optical Element DOE 25 LINES - PC - 8x1,2mm 37.7° @660nm



Size	Ø12x4mm
a	68.4mm
b	48.3mm
c	2mm
d	48.3mm
α	37.7°
β	27.2°
γ	1.1°
δ	27.2°

Pattern size at 100mm distance.
Pattern angels at 635nm.

Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70108101	DOE-DE-R254										Ø12x4	
70111125	DOE254-532-5-3(16X90)-NT	532	5	2M	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70111859	DOE254-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70111484	DOE254-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70112269	DOE254-635-5-6(10X22)	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

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Diffractive Optical Element DOE CROSS - PC - 8x1,2mm 10° @633nm

Size	Ø12x4mm
a	17.5mm
α	10°

Pattern size at 100mm distance.
Pattern angels at 635nm.

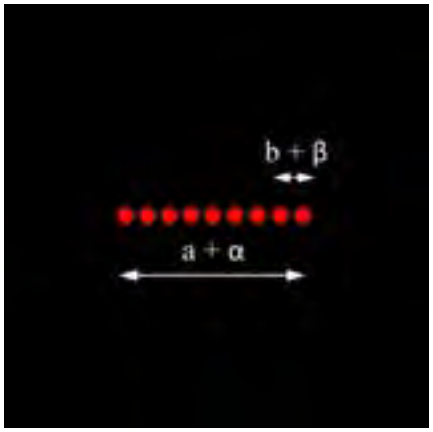
Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70108019	DOE-DE-R245										Ø12x4	
70111033	DOE245-532-5-3(16X90)-NT	532	5	2M	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70110708	DOE245-635-1-6(10X22)-F280	635	1	1	5	30	✓	VDD(+)	100	3000	Ø10x22	
70111767	DOE245-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70111392	DOE245-635-5-3(16X90)-NT	635	5	2	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70110630	DOE245-635-5-6(10X22)	635	5	2	5	45	✓	VDD(+)	100	3000	Ø10x22	
70115000	DOE245-635-5-6(10X22)-F300	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

Diffractive Optical Element DOE 1:9 Dot Line PC 8x1.2mm 0,9° @670nm



Size	Ø12x4mm
a	1.6mm
b	0.2mm
α	0.9°
β	0.1°

Pattern size at 100mm distance.
Pattern angels at 635nm.

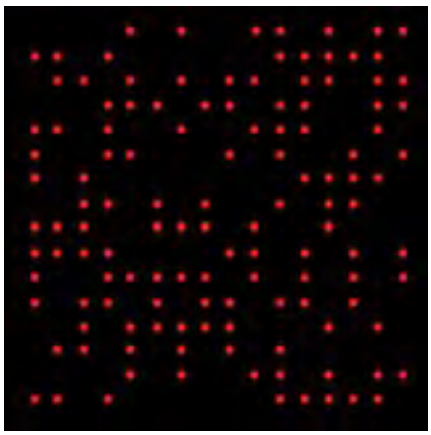
Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70108217	DOE-DE-R264										Ø12x4	
70111217	DOE264-532-5-3(16X90)-NT	532	5	2M	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70111958	DOE264-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70111583	DOE264-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70112368	DOE264-635-5-6(10X22)	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

Diffractive Optical Element DOE 33000-Dot Pseudo-Random Pattern (45.9°x31.5°@645nm)



Size	Ø12x4mm
a	84.8mm
b	56.4mm
c	101.3mm
α	45.9°
β	31.5°
γ	53.7°

Pattern size at 100mm distance.
Pattern angels at 635nm.

Figure 1

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70124187	DOE-DE-R335										Ø12x4	

Diffractive Optical Element DOE CROSS - PC - 8x1,2mm 25° @645nm

Size	Ø12x4mm
a	44.3mm
α	25°

Pattern size at 100mm distance.
Pattern angels at 635nm.

Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70108033	DOE-DE-R247										Ø12x4	
70111057	DOE247-532-5-3(16X90)-NT	532	5	2	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70111781	DOE247-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70111415	DOE247-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70112191	DOE247-635-5-6(10X22)	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

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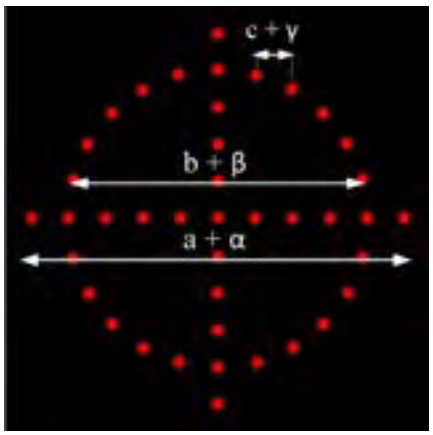
Diffractive Optical Element DOE Viewfinder (Dot Circle + Cross) PC - 8x1,2mm 6,3° @653r



Size	Ø12x4mm
a	11mm
b	8.8mm
c	1.1mm
α	6.3°
β	5°
γ	0.63°

Pattern size at 100mm distance.
Pattern angels at 635nm.

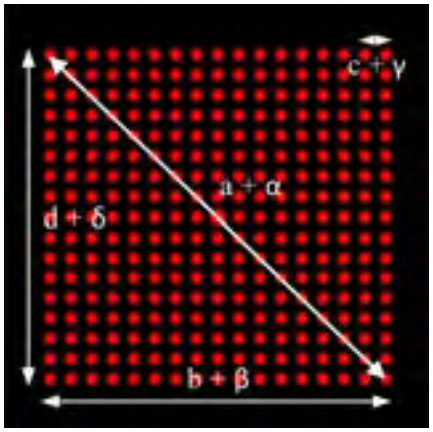
Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70108187	DOE-DE-R261										Ø12x4	
70111927	DOE261-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70111552	DOE261-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70112337	DOE261-635-5-6(10X22)	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

Diffractive Optical Element DOE 17x17 Dots - PMMA - 8x1mm 21.5° @660nm



Size	Ø12x4mm
Output Aperture	6mm
a	38mm
b	26.6mm
c	1.7mm
d	26.6mm
α	21.5°
β	15.2°
γ	0.9°
δ	15.2°

Pattern size at 100mm distance.
Pattern angels at 635nm.

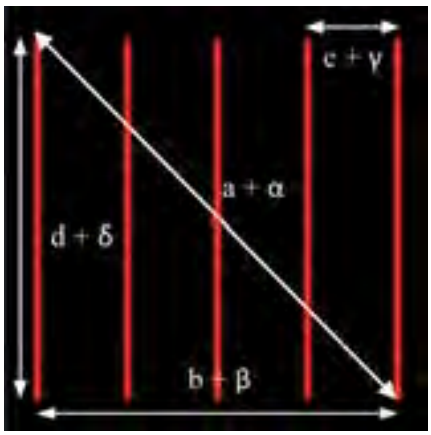
Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70107890	DOE-DE-R206										Ø12x4	
70110913	DOE206-532-5-3(16X90)-NT	532	5	2M	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70111644	DOE206-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70111279	DOE206-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70112061	DOE206-635-5-6(10X22)	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

Diffractive Optical Element DOE 5 LINES - PC - 8x1,2mm 24.1° @635nm



Size	Ø12x4mm
a	42.7mm
b	30.2mm
c	7.5mm
d	30.2mm
α	24.1°
β	17.2°
γ	4.3°
δ	17.2°

Pattern size at 100mm distance.
Pattern angels at 635nm.

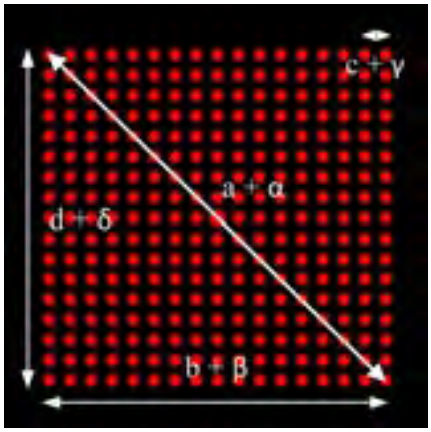
Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70108088	DOE-DE-R252										Ø12x4	
70111101	DOE252-532-5-3(16X90)-NT	532	5	2M	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70111835	DOE252-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70111460	DOE252-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70112245	DOE252-635-5-6(10X22)	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

Diffractive Optical Element DOE 17x17 Dots - PMMA - 8x1mm 7.1° @635nm



Size	Ø12x4mm
a	12.4mm
b	8.8mm
c	0.5mm
d	8.8mm
α	7.1°
β	5°
γ	0.3°
δ	5°

Pattern size at 100mm distance.
Pattern angels at 635nm.

Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70107999	DOE-DE-R243										Ø12x4	
70111019	DOE243-532-5-3(16X90)-NT	532	5	2M	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70111743	DOE243-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70111378	DOE243-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70112160	DOE243-635-5-6(10X22)	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

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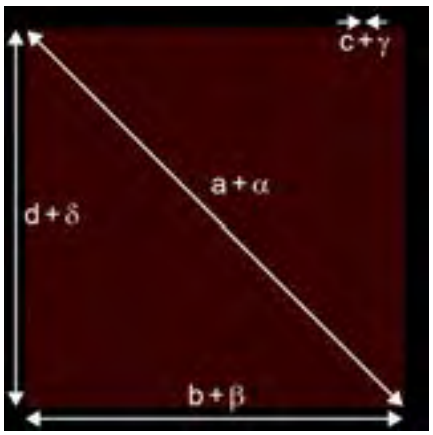
Diffractive Optical Element DOE 101 x 101 DOTS - PC - 8x1.2mm 7.4° @660nm



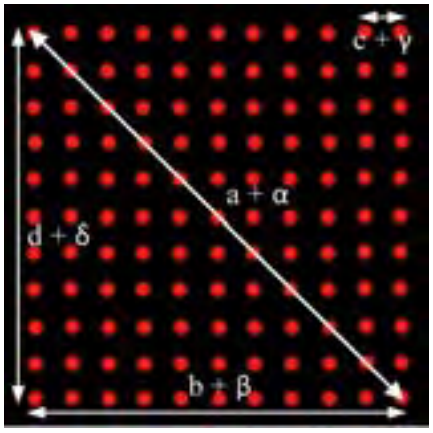
Size	Ø12x4mm
a	12.8mm
b	9.1mm
c	0.1mm
d	9.1mm
α	7.4°
β	5.2°
γ	0.05°
δ	5.2°

Pattern size at 100mm distance.
Pattern angels at 635nm.

Figure 1

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70124132	DOE-DE-R231										Ø12x4	

Diffractive Optical Element DOE 11x11 Dots PC 8x1.2mm 39.2° @635nm



Size	Ø12x4mm
a	71.2mm
b	50.3mm
c	5mm
d	50.3mm
α	39.2°
β	28.2°
γ	2.8°
δ	28.2°

Pattern size at 100mm distance.
Pattern angels at 635nm.

Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70108156	DOE-DE-R258										Ø12x4	
70111163	DOE258-532-5-3(16X90)-NT	532	5	2	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70111897	DOE258-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70111521	DOE258-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70124262	DOE258-635-5-6(10X22)-F300	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	
70112306	DOE258-635-5-6(10X22)	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	
70112832	DOE258-635-5-6(10X22)-F700	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

Diffractive Optical Element DOE CROSS - 30 - PC - 8x2.1mm 30° @640nm

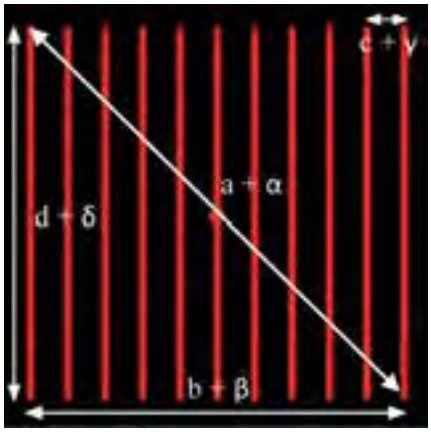
Size	Ø8x1.2mm
a	53.6mm
α	30°

Pattern size at 100mm distance.
Pattern angels at 635nm.

Figure 1

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70124118	DOE-DE-R270										Ø8x1.2	

Diffractive Optical Element DOE 11 Lines (Square Area) - PC - 8x1,2mm 42° @635nm



Size	Ø12x4mm
a	76.7mm
b	54.4mm
c	5.4mm
d	54.4mm
α	42°
β	30.4°
γ	3°
δ	30.4°

Pattern size at 100mm distance.
Pattern angels at 635nm.

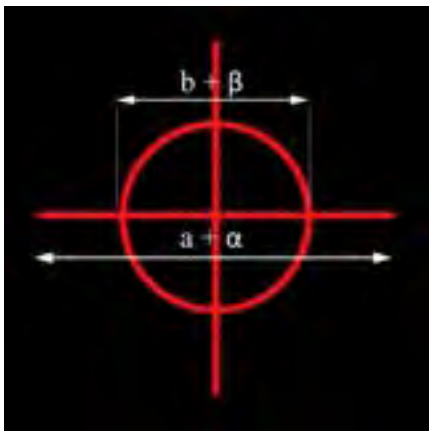
Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70107906	DOE-DE-R213										Ø12x4	
70110920	DOE213-532-5-3(16X90)-NT	532	5	2M	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70111651	DOE213-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70111286	DOE213-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70112078	DOE213-635-5-6(10X22)	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

Diffractive Optical Element DOE Viewfinder (Circle + Cross) PC - 8x1,2mm 21° @645nm



Size	Ø12x4mm
a	37mm
b	18.3mm
α	21°
β	10.5°

Pattern size at 100mm distance.
Pattern angels at 635nm.

Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70108170	DOE-DE-R260										Ø12x4	
70110814	DOE260-532-5-3(16X90)-NT	532	5	2M	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70111910	DOE260-635-1-6(10X22)	635	1	1M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70114782	DOE260-635-5-3(16X90)-F1000-NT	635	5	1M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70111545	DOE260-635-5-3(16X90)-NT	635	5	2	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70112320	DOE260-635-5-6(10X22)	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

Diffractive Optical Element DOE CROSS - 5 - PC - 8x2.1mm 5° @520nm

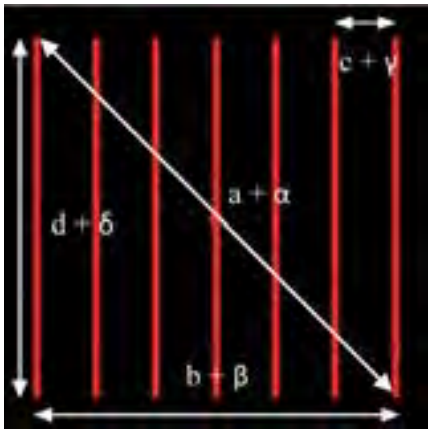
Size	Ø12x4mm
a	8.7mm
α	5°

Pattern size at 100mm distance.
Pattern angels at 635nm.

Figure 1

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70124101	DOE-DE-R239										Ø12x4	

Diffractive Optical Element DOE 7 Lines (Square Area) - PC - 8x1,2mm 30° @635



Size	Ø12x4mm
a	53mm
b	38.2mm
c	6.4mm
d	38.2mm
α	30.2°
β	21.6°
γ	3.6°
δ	21.6°

Pattern size at 100mm distance.
Pattern angels at 635nm.

Figure 1

Figure 2

Figure 3

Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Operating Voltage V DC	Operating Current mA	Protection Lens	Potential of Housing	Cable length mm	Lifetime h	Size mm	Power Supply included
70107951	DOE-DE-R233										Ø12x4	
70110975	DOE233-532-5-3(16X90)-NT	532	5	2M	3	250	✓	VDD(+)	1360	5000	Ø16x90	✓
70111705	DOE233-635-1-6(10X22)	635	1	2M	5	30	✓	VDD(+)	100	3000	Ø10x22	
70111330	DOE233-635-5-3(16X90)-NT	635	5	2M	3	60	✓	VDD(+)	1360	5000	Ø16x90	✓
70112122	DOE233-635-5-6(10X22)	635	5	2M	5	45	✓	VDD(+)	100	3000	Ø10x22	

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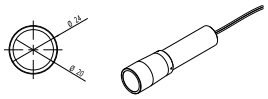
Expander

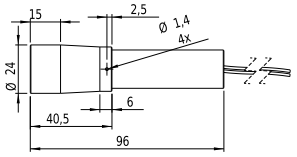
Picture	Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Focus	Operating Voltage V DC	Size mm	Operating Voltage V DC	Operating Current mA	Potential of Housing	Cable length mm	Page
	70125597	E520-12-5-20(24X96)	520	12	3R	fixed (10.0m)	5	Ø24x96	5	160		100	263
	70114348	E532-1-3-20(24X120)-C300-C	532	1	2	adjustable	3	Ø24x120	3	300	isolated	300	265
	70102505	E532-5-3-30(43X200)	532	5	1M	fixed	3	Ø43x200	3	150	isolated	100	266
	70120431	E532-5-5-20(24X120)	532	5	2M	adjustable	5	Ø24x120	5	100	isolated	100	262
	70102499	E532-5-3-20(24X120)	532	5	2M	adjustable	3	Ø24x120	3	300	isolated	100	262
	70102543	E532-10-3-30(43X200)	532	10	2M	fixed (5.0m)	3	Ø43x200	3	500	isolated	100	265
	70120424	E532-10-5-20(24X120)	532	10	3R	adjustable	5	Ø24x120	5	150	isolated	100	262
	70102536	E532-10-3-20(24X120)	532	10	3R	adjustable	3	Ø24x120	3	150	isolated	100	262
	70127607	E635-1-3-20(24X96)	635	1	2	adjustable	3	Ø24x96	3	35	isolated	200	262
	70102390	E635-2-3-20(24X96)	635	2	3R	adjustable	3	Ø24x96	3	35	isolated	100	262
	70106589	E635-2-3-15(20X120)	635	2	2M	fixed (10.0m)	3	Ø20x120	3	50	isolated	100	263
	70102444	E650-2-3-30(43X175)	650	2	1M	fixed (5.0m)	3	Ø43x175	3	42	isolated	100	264
	70102437	E650-2-3-20(24X96)	650	2	3R	adjustable	3	Ø24x96	3	30	isolated	100	262
	70102512	E650-8-3-20(24X96)	650	8	3B	adjustable	3	Ø24x96	3	65	isolated	100	262
	70116793	E658-20-3-15(20X120)	658	20	3B	fixed (10.0m)	3	Ø20x120	3	120	isolated	100	263
	70121544	MEJ658-100-5(9.5X20)-NO-OPTICS	658	100	3R		5	Ø9.5x20	5	180	isolated	100	264
	70102468	E670-2-3-20(24X96)	670	2	3R	adjustable	3	Ø24x96	3	35	isolated	100	262

Expander, Ø24x96mm

- Operating Voltage 3V DC
- Image processing
- Glas lenses anti reflex coated

Size	Ø24x96mm
Beam Shape	expander
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	20mm



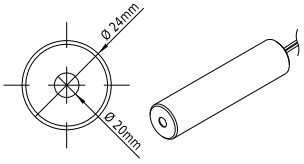


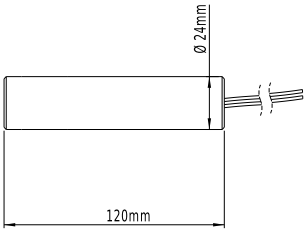
Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Operating Voltage V DC	Operating Current mA	Potential of Housing	Divergence mrad	Cable length mm	Lifetime h	Stability
70127607	E635-1-3-20(24X96)	635	1	2		3	35	isolated		200	5000	
70102390	E635-2-3-20(24X96)	635	2	3R		3	35	isolated		100	5000	
70102437	E650-2-3-20(24X96)	650	2	3R		3	30	isolated		100	5000	
70102512	E650-8-3-20(24X96)	650	8	3B		3	65	isolated		100	5000	
70102468	E670-2-3-20(24X96)	670	2	3R		3	35	isolated		100	5000	

Expander, Ø24x120mm

- Glas lenses anti reflex coated
- Adjustable focus
- Uniform illumination

Size	Ø24x120mm
Beam Shape	expander
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	20mm





Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Operating Voltage V DC	Operating Current mA	Potential of Housing	Divergence mrad	Cable length mm	Lifetime h	Stability
70102499	E532-5-3-20(24X120)	532	5	2M		3	300	isolated		100	5000	+/- 20% @ 15-30°C
70120431	E532-5-5-20(24X120)	532	5	2M		5	100	isolated		100	5000	+/- 20% @ 15-30°C
70102536	E532-10-3-20(24X120)	532	10	3R		3	150	isolated		100	5000	+/- 20% @ 15-30°C
70120424	E532-10-5-20(24X120)	532	10	3R		5	150	isolated		100	5000	+/- 20% @ 15-30°C

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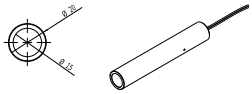
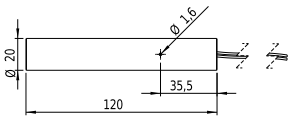
Expander, Ø20x120mm

- Operating Voltage 3V DC
- Glas lenses anti reflex coated
- Uniform illumination
- Small laser head

Size	Ø20x120mm
Beam Shape	expander
Beam Diameter	15mm
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (10.0m)
Output Aperture	15mm



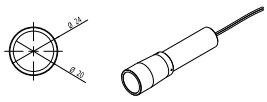


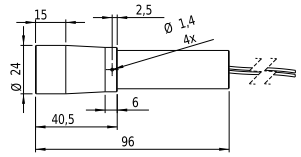
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Operating Voltage	Operating Current	Potential of Housing	Divergence	Cable length	Lifetime	Stability
		nm	mW			V DC	mA		mrad	mm	h	
70106589	E635-2-3-15(20X120)	635	2	2M		3	50	isolated	B - 0.3	100	5000	
70116793	E658-20-3-15(20X120)	658	20	3B		3	120	isolated	B - 0.3	100	10000	

Expander, Ø24x96mm

- Machine Vision
- Medical engineering
- Particle measurement

Size	Ø24x96mm
Beam Shape	expander
Beam Diameter	20mm
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (10.0m)
Output Aperture	20mm



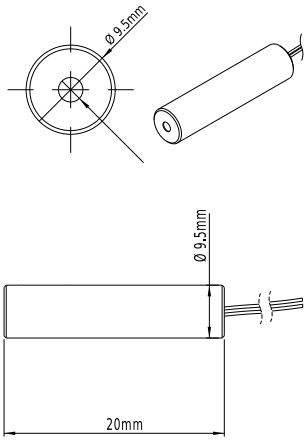


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Operating Voltage	Operating Current	Potential of Housing	Divergence	Cable length	Lifetime	Stability
		nm	mW			V DC	mA		mrad	mm	h	
70125597	E520-12-5-20(24X96)	520	12	3R		5	160		E - 0.6	100	5000	+/- 3% @ -10-50°C

Modulated Expander, Ø9.5x20mm

- Image processing
- Uniform illumination
- Modulated
- Protection lens
- Compact size

Size	Ø9.5x20mm
Beam Shape	expander
Material	aluminium
Optics	glass lens AR coated

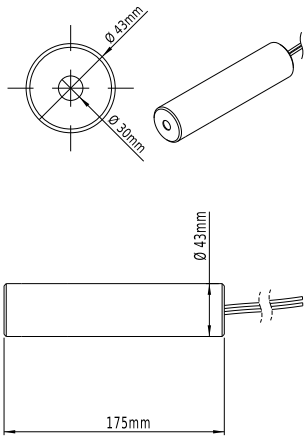


Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Operating Voltage	Operating Current	Potential of Housing	Divergence	Cable length	Lifetime	Stability
		nm	mW			V DC	mA		mrad	mm	h	
70121544	MEJ658-100-5(9.5X20)-NO-OPTICS	658	100	3R	17°	5	180	isolated		100	10000	

Expander, Ø43x175mm

- Operating Voltage 3V DC
- Laser Class 1M
- Image processing
- Uniform illumination
- Fixed focus

Size	Ø43x175mm
Beam Shape	expander
Beam Diameter	30mm
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (5.0m)
Output Aperture	30mm



Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Operating Voltage	Operating Current	Potential of Housing	Divergence	Cable length	Lifetime	Stability
		nm	mW			V DC	mA		mrad	mm	h	
70102444	E650-2-3-30(43X175)	650	2	1M		3	42	isolated	E - 0.6	100	5000	

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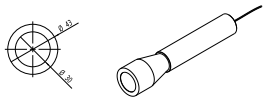
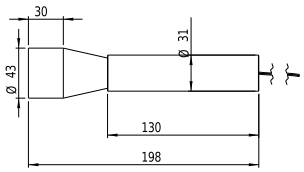
Expander, Ø43x200mm

- Operating Voltage 3V DC
- Glas lenses anti reflex coated
- Uniform illumination
- Laser Class 2M
- Image processing

Size	Ø43x200mm
Beam Shape	expander
Beam Diameter	30mm
Material	aluminium
Optics	glass lens AR coated
Focus	fixed (5.0m)
Output Aperture	30mm



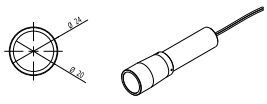


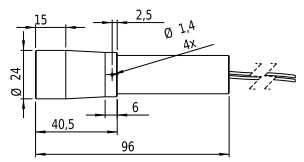
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Operating Voltage	Operating Current	Potential of Housing	Divergence	Cable length	Lifetime	Stability
		nm	mW			V DC	mA		mrad	mm	h	
70102543	E532-10-3-30(43X200)	532	10	2M		3	500	isolated		100	5000	+/- 20% @ 15-30°C

Expander, Ø24x120mm

- Operating Voltage 3V DC
- Glas lenses anti reflex coated
- Laser Class 2
- Adjustable focus
- Uniform illumination

Size	Ø24x120mm
Beam Shape	expander
Material	aluminium
Optics	glass lens AR coated
Focus	adjustable
Output Aperture	20mm
Connector	2.1 mm DC plug (+pole inner)



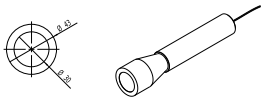


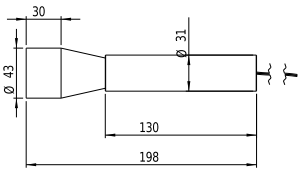
Order Number	Partnumber	Wavelength	Optical Power	Laser Class	Fan Angle	Operating Voltage	Operating Current	Potential of Housing	Divergence	Cable length	Lifetime	Stability
		nm	mW			V DC	mA		mrad	mm	h	
70114348	E532-1-3-20(24X120)-C300-C	532	1	2		3	300	isolated		300	5000	+/- 20% @ 15-30°C

Expander, Ø43x200mm

- Operating Voltage 3V DC
- Laser Class 1M
- Image processing
- Glas lenses anti reflex coated
- Fixed focus

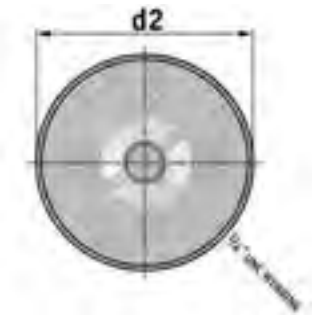
Size	Ø43x200mm
Beam Shape	expander
Beam Diameter	30mm
Material	aluminium
Optics	glass lens AR coated
Focus	fixed
Output Aperture	30mm





Order Number	Partnumber	Wavelength nm	Optical Power mW	Laser Class	Fan Angle	Operating Voltage V DC	Operating Current mA	Potential of Housing	Divergence mrad	Cable length mm	Lifetime h	Stability
70102505	E532-5-3-30(43X200)	532	5	1M		3	150	isolated		100	5000	+/- 20% @ 15-30°C

Halterungen | Brackets



Order Number	Partnumber	d1 mm	d2 mm	t mm	k mm	g mm	h1 mm	h2 mm	h3 mm	b mm	α	β	γ	Page
70117844	BALLHEAD-MOUNT-08(25X66)	8	25	27	31.5	15	66	60	34.5	18	360°	±40°	±40°	268
70117868	BALLHEAD-MOUNT-09(25X67)	9	25	27	32.5	16	67	61	34.5	18	360°	±40°	±40°	268
70117851	BALLHEAD-MOUNT-10.3(25X69)	10.3	25	27	34	17.3	68	61	34.5	18	360°	±40°	±40°	268
70117875	BALLHEAD-MOUNT-12(25X70)	12	25	27	35.5	19	70	62	34.5	18	360°	±40°	±40°	268
70117882	BALLHEAD-MOUNT-14(25X72)	14	25	27	37.5	21	72	63	34.5	18	360°	±40°	±40°	268
70117899	BALLHEAD-MOUNT-15.5(25X74)	15.5	25	27	39	22.5	74	65	34.5	18	360°	±40°	±40°	268
70117905	BALLHEAD-MOUNT-16(25X75)	16	25	27	39	23	75	64	34.5	18	360°	±40°	±40°	268
70117912	BALLHEAD-MOUNT-20(25X78)	20	25	33	44	27	78	67	34.5	22	360°	±40°	±40°	268
70117929	BALLHEAD-MOUNT-22(25X80)	22	25	36	46	29	80	67	34.5	24	360°	±40°	±40°	268
70117936	BALLHEAD-MOUNT-25.4(25X84)	25.4	25	40	49.5	32.5	84	70	34.5	27.5	360°	±40°	±40°	268
70122060	BRACKET-20-AL	20	35				80	60			360°			270
70115154	MULTI-MOUNT-06(45X75)	6	45	15	50	50	75	60	25	26	360°	±90°		269
70115161	MULTI-MOUNT-07(45X75)	7	45	15	50	50	75	60	25	26	360°	±90°		268
70112481	MULTI-MOUNT-08(45X75)	8	45	15	50	50	75	60	25	26	360°	±90°		269
70114065	MULTI-MOUNT-09(45X75)	9	45	15	50	50	75	60	25	26	360°	±90°		268
70114072	MULTI-MOUNT-10(45X75)	10	45	15	50	50	75	60	25	26	360°	±90°		268
70114089	MULTI-MOUNT-11(45X75)	11	45	15	50	50	75	60	25	26	360°	±90°		268
70112498	MULTI-MOUNT-12(45X75)	12	45	15	50	50	75	60	25	26	360°	±90°		269
70115178	MULTI-MOUNT-13(45X75)	13	45	15	50	50	75	60	25	26	360°	±90°		268
70114096	MULTI-MOUNT-14(45X75)	14	45	15	50	50	75	60	25	26	360°	±90°		269
70114102	MULTI-MOUNT-15(45X75)	15	45	15	50	50	75	60	25	26	360°	±90°		268
70112504	MULTI-MOUNT-16(45X75)	16	45	15	50	50	75	60	25	26	360°	±90°		269
70115185	MULTI-MOUNT-17(45X75)	17	45	15	50	50	75	60	25	26	360°	±90°		268
70114119	MULTI-MOUNT-18(45X75)	18	45	15	50	50	75	60	25	26	360°	±90°		268
70115192	MULTI-MOUNT-19(45X75)	19	45	15	50	50	75	60	25	26	360°	±90°		268
70112511	MULTI-MOUNT-20(45X75)	20	45	15	50	50	75	60	25	26	360°	±90°		268
70115208	MULTI-MOUNT-21(45X75)	21	45	15	50	50	75	60	25	26	360°	±90°		268
70115215	MULTI-MOUNT-22(45X75)	22	45	15	50	50	75	60	25	26	360°	±90°		268
70120486	PENDULUM-MOUNT-22	22	45				175		25					269

Aluminium Multi-Mount

Size	Ø45x75mm
Operating Temperature	-20°C - 50°C
Storage Temperature	-50°C - 70°C
Material	aluminium

Order Number	Partnumber	d1 mm	d2 mm	t mm	k mm	g mm	h1 mm	h2 mm	h3 mm	b mm	α	β	γ
70115161	MULTI-MOUNT-07(45X75)	7	45	15	50	50	75	60	25	26	360°	±90°	
70114065	MULTI-MOUNT-09(45X75)	9	45	15	50	50	75	60	25	26	360°	±90°	
70114072	MULTI-MOUNT-10(45X75)	10	45	15	50	50	75	60	25	26	360°	±90°	
70114089	MULTI-MOUNT-11(45X75)	11	45	15	50	50	75	60	25	26	360°	±90°	
70115178	MULTI-MOUNT-13(45X75)	13	45	15	50	50	75	60	25	26	360°	±90°	
70114102	MULTI-MOUNT-15(45X75)	15	45	15	50	50	75	60	25	26	360°	±90°	
70115185	MULTI-MOUNT-17(45X75)	17	45	15	50	50	75	60	25	26	360°	±90°	
70114119	MULTI-MOUNT-18(45X75)	18	45	15	50	50	75	60	25	26	360°	±90°	
70115192	MULTI-MOUNT-19(45X75)	19	45	15	50	50	75	60	25	26	360°	±90°	
70112511	MULTI-MOUNT-20(45X75)	20	45	15	50	50	75	60	25	26	360°	±90°	
70115208	MULTI-MOUNT-21(45X75)	21	45	15	50	50	75	60	25	26	360°	±90°	
70115215	MULTI-MOUNT-22(45X75)	22	45	15	50	50	75	60	25	26	360°	±90°	

Aluminium Ballhead Mount

Operating Temperature	-20°C - 40°C
Storage Temperature	-50°C - 50°C
Material	aluminium

Order Number	Partnumber	d1 mm	d2 mm	t mm	k mm	g mm	h1 mm	h2 mm	h3 mm	b mm	α	β	γ
70117844	BALLHEAD-MOUNT-08(25X66)	8	25	27	31.5	15	66	60	34.5	18	360°	±40°	±40°
70117868	BALLHEAD-MOUNT-09(25X67)	9	25	27	32.5	16	67	61	34.5	18	360°	±40°	±40°
70117851	BALLHEAD-MOUNT-10.3(25X69)	10.3	25	27	34	17.3	68	61	34.5	18	360°	±40°	±40°
70117875	BALLHEAD-MOUNT-12(25X70)	12	25	27	35.5	19	70	62	34.5	18	360°	±40°	±40°
70117882	BALLHEAD-MOUNT-14(25X72)	14	25	27	37.5	21	72	63	34.5	18	360°	±40°	±40°
70117899	BALLHEAD-MOUNT-15.5(25X74)	15.5	25	27	39	22.5	74	65	34.5	18	360°	±40°	±40°
70117905	BALLHEAD-MOUNT-16(25X75)	16	25	27	39	23	75	64	34.5	18	360°	±40°	±40°
70117912	BALLHEAD-MOUNT-20(25X78)	20	25	33	44	27	78	67	34.5	22	360°	±40°	±40°
70117929	BALLHEAD-MOUNT-22(25X80)	22	25	36	46	29	80	67	34.5	24	360°	±40°	±40°
70117936	BALLHEAD-MOUNT-25.4(25X84)	25.4	25	40	49.5	32.5	84	70	34.5	27.5	360°	±40°	±40°

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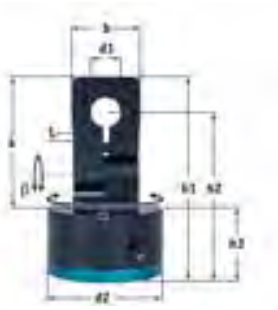
Aluminium Multi-Mount

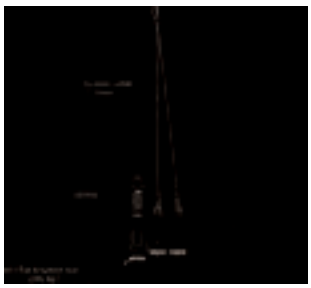
Size	Ø45x75mm
Operating Temperature	-20°C - 50°C
Storage Temperature	-50°C - 70°C
Material	aluminium



Order Number	Partnumber	d1 mm	d2 mm	t mm	k mm	g mm	h1 mm	h2 mm	h3 mm	b mm	α	β	γ
70115154	MULTI-MOUNT-06(45X75)	6	45	15	50	50	75	60	25	26	360°	±90°	
70112481	MULTI-MOUNT-08(45X75)	8	45	15	50	50	75	60	25	26	360°	±90°	
70112498	MULTI-MOUNT-12(45X75)	12	45	15	50	50	75	60	25	26	360°	±90°	
70114096	MULTI-MOUNT-14(45X75)	14	45	15	50	50	75	60	25	26	360°	±90°	
70112504	MULTI-MOUNT-16(45X75)	16	45	15	50	50	75	60	25	26	360°	±90°	

Aluminium Multi-Mount

Size	Ø42x175mm
Operating Temperature	-20°C - 50°C
Storage Temperature	-50°C - 70°C
Material	aluminium



Order Number	Partnumber	d1 mm	d2 mm	t mm	k mm	g mm	h1 mm	h2 mm	h3 mm	b mm	α	β	γ
70120486	PENDULUM-MOUNT-22	22	45				175		25				

Aluminium Multi-Mount

Operating Temperature	-50°C - 85°C
Storage Temperature	-50°C - 125°C
Material	aluminium

Order Number	Partnumber	d1 mm	d2 mm	t mm	k mm	g mm	h1 mm	h2 mm	h3 mm	b mm	α	β	γ
70122060	BRACKET-20-AL	20	35				80	60			360°		

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Due to the dangers that emanate from laser modules, the law requires labelling in line with DIN EN 60825-1:2015-07. All of our lasers are supplied with compliant laser label affixed. If you require additional laser labels for your application, you will find the standard labels for the laser classes 1, 1M, 2, 2M, 3, 3R and 4 here. We would be happy to support you in marking your laser equipment. We also offer customer-specific labels and look forward to receiving your enquiry.

Picture	Order Number	Partnumber	Laser Class	Description
	70119558	LABEL-DIN-CLASS1-IR-EN	1	Safety Label english DIN EN 60825, Class 1, 38x23mm, yellow, PET
	70112696	LABEL-DIN-CLASS1-EN	1	Safety Label english DIN EN 60825, Class 1, 38x23mm, yellow, PET
	70110821	LABEL-DIN-CLASS1-DE	1	Safety Label german DIN EN 60825, Class 1, 38x23mm, yellow, PET
	70119541	LABEL-DIN-CLASS1-IR-DE	1	Safety Label german DIN EN 60825, Class 1, 38x23mm, yellow, PET
	70119589	LABEL-DIN-CLASS1M-IR-EN	1M	Safety Label english DIN EN 60825, Class 1M, 38x23mm, yellow, PET
	70119572	LABEL-DIN-CLASS1M-IR-DE	1M	Safety Label german DIN EN 60825, Class 1M, 38x23mm, yellow, PET
	70114218	LABEL-DIN-CLASS1M-DE	1M	Safety Label german DIN EN 60825, Class 1M, 38x23mm, yellow, PET
	70119565	LABEL-DIN-CLASS1M-EN	1M	Safety Label english DIN EN 60825, Class 1M, 38x23mm, yellow, PET

Sicherheitslabels | Safety Labels

Picture	Order Number	Partnumber	Laser Class	Description
	70115024	LABEL-DIN-CLASS2-EN	2	Safety Label english DIN EN 60825, Class 2, 38x23mm, yellow, PET
	70110838	LABEL-DIN-CLASS2-DE	2	Safety Label german DIN EN 60825, Class 2, 38x23mm, yellow, PET
	70119596	LABEL-DIN-CLASS2M-EN	2M	Safety Label english DIN EN 60825, Class 2M, 38x23mm, yellow, PET
	70114201	LABEL-DIN-CLASS2M-DE	2M	Safety Label german DIN EN 60825, Class 2M, 38x23mm, yellow, PET
	70119640	LABEL-DIN-CLASS3B-IR-DE	3B	Safety Label german DIN EN 60825, Class 3B, 38x23mm, yellow, PET
	70119633	LABEL-DIN-CLASS3B-EN	3B	Safety Label english DIN EN 60825, Class 3B, 38x23mm, yellow, PET
	70114232	LABEL-DIN-CLASS3B-DE	3B	Safety Label german DIN EN 60825, Class 3B, 38x23mm, yellow, PET
	70119657	LABEL-DIN-CLASS3B-IR-EN	3B	Safety Label english DIN EN 60825, Class 3B, 38x23mm, yellow, PET
	70119619	LABEL-DIN-CLASS3R-IR-DE	3R	Safety Label german DIN EN 60825, Class 3R, 38x23mm, yellow, PET

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Sicherheitslabels | Safety Labels

Picture	Order Number	Partnumber	Laser Class	Description
	70119626	LABEL-DIN-CLASS3R-IR-EN	3R	Safety Label english DIN EN 60825, Class 3R, 38x23mm, yellow, PET
	70119602	LABEL-DIN-CLASS3R-EN	3R	Safety Label english DIN EN 60825, Class 3R, 38x23mm, yellow, PET
	70114195	LABEL-DIN-CLASS3R-DE	3R	Safety Label german DIN EN 60825, Class 3R, 38x23mm, yellow, PET
	70119688	LABEL-DIN-CLASS4-IR-EN	4	Safety Label english DIN EN 60825, Class 4, 38x23mm, yellow, PET
	70119671	LABEL-DIN-CLASS4-IR-DE	4	Safety Label german DIN EN 60825, Class 4, 38x23mm, yellow, PET
	70119664	LABEL-DIN-CLASS4-EN	4	Safety Label english DIN EN 60825, Class 4, 38x23mm, yellow, PET
	70114225	LABEL-DIN-CLASS4-DE	4	Safety Label german DIN EN 60825, Class 4, 38x23mm, yellow, PET

Stromversorgungen | Power Supplies

Picture	Order Number	Partnumber	Output Voltage V DC	Description
	70116755	BATT-AG13-SET		Alkaline Knopfzelle 1,5V AG13 Set in heating pipe
	70104936	BAT-CR123A	3	Panasonic Lithium Battery CR123A 3V 1400mAh
	70116243	LFBAT-AA03-CON2.5	3	Batterypack with DC Connector 2,5mm, Output: 3V DC, incl. 2 x AA cell
	70103427	LFBAT-AA03	3	Batterypack with stripped/tinned wires, Output: 3V DC, incl. 2 x AA cell
	70106718	LFNT-3-C	3	Power Supply, Output: 3V DC, Input: 100-240V AC, 50-60Hz, Output Power: 3W max, Connector 2,5x5,5x9,5mm center negative
	70104547	LFNT-3	3	Power Supply with stripped/tinned wires, Output: 3V DC, Input: 100-240V AC, 50-60Hz, Output Power: 3W max.
	70114683	LFNT-5	5	Power Supply with stripped/tinned wires, Output: 5V DC, Input: 100-240V AC, 50-60Hz, Output Power: 3W max.
	70115055	LFNT-24-C	24	Power Supply, Output: 24V DC, Input: 100-240V AC, 50-60Hz, Output Power: 24W max. SYS 1308-2424-W2E | 2,1 x 5,5 x 11 center positive
	70105445	LFNT-5-C	5	Power Supply, Output: 5V DC, Input: 100-240V AC, 50-60Hz, Output Power: 3W max, Connector 2,1x5,5x9,5mm center negative
	70118230	LFBAT-AG13-SET	3	AG13 (LR44) Alkaline Battery Set 5x2pcs, 3V DC, 12x11mm for 2pcs set
	70115031	NF-S-419424-1-16A		Power Line Filter 16A 250V AC, 50/60Hz to protect Lasermodules from voltage peaks
	70122992	NT-TT-12	12	Power Supply with connector, Output: 12V DC, Input: 90-264V AC, 50-60Hz, Output Power: 30W max. with DC plug 2,5x5,5x9,5mm. DC Cord 1800mm
	70114928	AM1-1203SZ	3	DC DC Converter IN=12V OUT=3V 1 Watt (300 mA)
	70113907	AM1-2403SZ	3	DC DC Converter IN=24V OUT=3V 1 Watt (300 mA)
	70113945	AM1-0503SZ	3.3	DC DC Converter IN=5V OUT=3V 1 Watt (300 mA)
	70114140	AM1-2405SZ	5	DC DC Converter IN=24V OUT=5V 1 Watt (300 mA)

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ALLGEMEINE INFORMATIONEN

General information

ENGINEERING
Kundenspezifische Lasermodule und optische Baugruppen in Einzelfertigung? Kein Problem für uns! Dank unseres eigens entwickelten und weltweit einmaligen Produktmanagementsystems (PLM) können wir Ihnen individuelle Lasermodule speziell nach Ihren Anforderungen bereits ab einem Stück anbieten. Und das günstiger als Sie denken – wir freuen uns auf Ihre Anfrage!

ENGINEERING
Customer-specific laser modules and optical assemblies as one-offs? No problem for us! Thanks to our specifically developed and globally unique product management system (PLM), we can offer you individual laser modules tailored to your requirements from a batch size of one. And for less money than you might think – we look forward to your enquiry!

LASER & SICHERHEIT
Das Wichtigste beim Einsatz von Lasermodulen: Sicherheit. Wir unterstützen Sie bei der Auswahl des richtigen Lasermoduls und helfen Ihnen, die sicherheitsrelevanten Aspekte umzusetzen. Wir klassifizieren für Sie alle Lasermodule nach der DIN EN 60825-1:2015-07 und liefern Ihnen Sicherheitsempfehlungen in Form eines Merkblattes.

LASERS AND SAFETY
The most important thing when you deploy laser modules is safety. We support you in selecting the right laser module and help you to implement the safety-relevant aspects. We classify all laser modules for you in line with DIN EN 60825-1:2015-07 and supply safety recommendations in the form of an instruction sheet.

QUALITÄTSKONTROLLE
Kein Laser verlässt ungeprüft unser Haus. Jedes Modul hat eine eindeutige Chargenkennzeichnung und ist mit einem maschinenlesbaren Barcode auf dem Warnschild ausgestattet. Wenn Sie wünschen, implementieren wir auch weiterführende Prüfprozesse speziell nach Ihren Anforderungen in unser Qualitätsmanagement.

QUALITY CHECKS
No laser leaves our premises unchecked. Each module has a unique batch designation and is equipped with a machine-readable barcode on the warning label. If so desired, we will also implement additional test processes tailored to your requirements in our Quality Management.

PREISSTELLUNG
Unsere Preise verstehen sich in EUR exklusive Mehrwertsteuer, ab Lager Koblenz/Germany (EXW).

PRICING
Our prices are quoted in euros excluding VAT ex warehouse Koblenz/Germany (EXW).

RABATTE

Stückzahl	10	50	100	250	500	1000
Rabatt	10%	15%	20%	25%	30%	35%

DISCOUNTS

Quantity	10	50	100	250	500	1000
Discount	10%	15%	20%	25%	30%	35%

VERSAND & HANDLING
Wir versenden weltweit – hauptsächlich mit UPS. Dadurch sind Ihre Laser auch beim Transport sicher und kommen schnell bei Ihnen an. Außerdem unterstützen wir Sie gerne bei den Zollformalitäten.

SHIPPING AND HANDLING
We ship worldwide – mainly with UPS. This keeps your laser safe during transport and makes sure it reaches you quickly. We are also happy to provide support in customs clearance.

BESTELLUNG
Bestellen können Sie per E-Mail unter sales@picotronic.de oder per Fax unter +49(0)261 983497-10. Bei Bestellungen aus dem EU Ausland bitten wir Sie, uns Ihre Umsatzsteuernummer mitzuteilen. Um Verwechslungen zu vermeiden, empfehlen wir Ihnen zusätzlich zur Typenbezeichnung die 8-stellige (7XXXXXXX) Bestellnummer anzugeben.

ORDERS
You can order by e-mail to sales@picotronic.de or by fax to +49(0)261 983497-10. Please quote your VAT ID with orders from EU countries outside of Germany. To avoid confusion, we also recommend that you quote the 8-digit order number (7XXXXXXX) as well as the model designation.

MINDESTBESTELLMENGE
Ob nur 1 oder gleich 100.000 Lasermodule – wir freuen uns auf jeden Kunden. Daher gibt es bei uns keine Mindestabnahmemenge und keinen Mindestbestellwert.

MINIMUM ORDER VOLUME
Whether you are ordering 1 or 100,000 laser modules – we appreciate your custom. In line with this, we do not have a minimum order quantity or amount.

ZAHLUNGEN & ZAHLUNGSBEDINGUNGEN
Innerhalb Deutschlands beliefern wir alle gewerblichen Kunden und Institutionen (Gemeinden, Schulen, Universitäten, etc.) gerne auf Rechnung. Privatpersonen können gegen Vorauskasse bei uns bestellen. Als Zahlungsmethode akzeptieren wir: Banküberweisung, Kreditkarten, Paypal.

PAYMENTS & PAYMENT TERMS
Within Germany, we supply all commercial customers and institutes (municipalities, schools, universities, etc.) against invoice. Consumers can place orders with us on a cash in advance basis. We accept the following payment methods: bank transfer, credit cards, Paypal.

PICOTRONIC®

DIN

MITGLIED

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