

Dot laser, infrared, 850 nm, 3 mW

AMD1850-3-5(8X21)-RL
Order Number: 70166262

Main Parameters (*)	min	typ	max	Unit
Wavelength		850		nm
Optical Output Power		3		mW
Operating Voltage	4.5	5	5.5	V DC
Operating Current	10	15	25	mA
Operating Temperature	-20		50	°C
Storage Temperature	-40		80	°C

Main Data

Warranty	1 years
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Technical Parameters

Lifetime	> 5,000 h
RoHS	yes

Optical Parameters

Beam Shape	Dot
Laser Class	3R
Divergence	1 - 1.5 mrad
Size of Laserdot	3mm@5m
Operating Distance	30 m
Optics	glass lens AR coated
Laser technology	Single Mode Diode
Focus	collimated

Electrical Parameters

Potential of Housing	VDD(+)
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Mechanical Parameters

Size	Ø8x21 mm
Material	aluminium
Cable length	100 mm
Wire type	26AWG, 0,14mm ²
Output Aperture	2.5 mm
Housing Color	black
Weight	3.5 g
Stripping of wire	5 mm

(*) Over the complete operating temperature range

Features



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

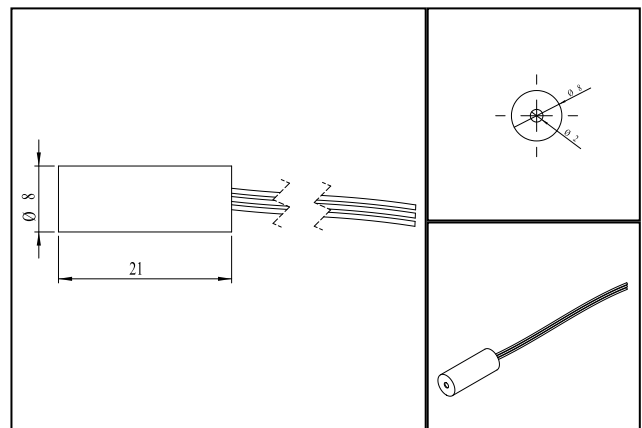
Picture



Cable color

Ground		black	GND
Positive		red	4.5 - 5.5, typ 5 V DC
Modulation		yellow	

Drawing



Safety Label



Valid Revision

| 05-JUL-2024