

Expander Laser, infrared, 850 nm, 0.85 mW

DJ850-0.85-5(8x25)-VCSEL
Order Number: 70148466

Main Parameters (*)	min	typ	max	Unit
Wavelength	845	850	855	nm
Optical Output Power	0.75	0.85	0.9	mW
Operating Voltage	4.5	5	5	V DC
Operating Current	5	15	25	mA
Operating Temperature	-20		60	°C
Storage Temperature	-40		80	°C

Main Data

Warranty	1 years
----------	---------

Technical Parameters

Lifetime	> 10,000 h
RoHS	yes

Optical Parameters

Beam Shape	expander
Laser Class	1
Divergence	J - 2.0 mrad
Size of Laserdot	min 7.5mm, typ 9.5mm, max 11.5mm@2m
Operating Distance	2 m
Optics	glass lens AR coated
Laser technology	VCSEL Diode
Axial Divergence	±0.15°
Focus	fixed (2000mm)

Electrical Parameters

Potential of Housing	isolated
ESD Protection	yes
Max. Mod. Frequency	0.1 kHz

Mechanical Parameters

Size	Ø8x25 mm
Material	aluminium
Cable length	300 mm

Wire type	28AWG, Typ 1061, UL1061
Output Aperture	2.4 mm
Housing Color	brass
Weight	5 g
Stripping of wire	10 mm

(*) Over the complete operating temperature range

Features



- Laser Class 1
- Operating Voltage 5 V DC
- Spotsize @ 2m: min 7.5mm
- Typ 9.5mm
- Max 11.5mm@2m

Picture



Cable color

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

Safety Label



Valid Revision

| 11-AUG-2020