

Dot laser, infrared, 980 nm, 0.4 mW

MDB980-0.4-5-FA(14x52)
Order Number: 70122176

Main Parameters (*)	min	typ	max	Unit
Wavelength	975	980	985	nm
Optical Output Power		0.4		mW
Operating Voltage	4.5	5	5.5	V DC
Operating Current	5	12	30	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	1
Divergence	B - 0.3 mrad
Beam Diameter	5 mm
Size of Laserdot	<30mm@50m
Operating Distance	50 m
Optics	glass lens AR coated
Laser technology	Single Mode Diode
Focus	fixed (50.0m)

Electrical Parameters

Potential of Housing	isolated
Max. Mod. Frequency	50 kHz

Power Supply with
stripped/tinned wires, Output:
5V DC, Input: 100-240V AC, 50-
60Hz, Output Power: 3W max.

Mechanical Parameters

Size	Ø14x52 mm
Material	aluminium
Cable length	100 mm

Wire type	Belden, Typ 1007, 26AWG
Output Aperture	5 mm
Housing Color	black
Weight	18.8 g
Stripping of wire	5 mm

(*) Over the complete operating temperature range

Features



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

Picture



Cable color

Ground		black	GND
Positive		red	4.5 - 5.5, typ 5 V DC
Modulation		yellow	50 kHz

Safety Label



Valid Revision

| 12-SEP-2023