

Dot laser, red, 650 nm, 1 mW

DB650-1-3-FA(12X42)-AP
Order Number: 70159677

Main Parameters (*)	min	typ	max	Unit
Wavelength		650		nm
Optical Output Power		1		mW
Operating Voltage	2.7	3	3.3	V DC
Operating Current	15	23	35	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	2
Divergence	B - 0.3 mrad
Beam Diameter	5 mm
Size of Laserdot	3..4mm@10m
Operating Distance	50 m
Optics	glass lens AR coated
Laser technology	Single Mode Diode
Axial Divergence	± 0.3 °
Focus	fixed (10.0m)

Electrical Parameters

Potential of Housing	isolated
Power Supply	Power Supply with stripped/tinned wires, Output: 3.3V DC, Input: 100-240V AC, 50-60Hz, Output Power: 3.3W max.

Mechanical Parameters

Size	Ø12x42 mm
Material	aluminium

Cable length	1,850 mm
Wire type	Belden, Typ 1007, 26AWG
Output Aperture	5 mm
Housing Color	silver
Weight	35 g
Stripping of wire	5 mm

(*) Over the complete operating temperature range

Features



Picture



Cable color

Positive		white	2.7 - 3.3, typ 3 V DC
Ground		black	GND

Safety Label



Valid Revision

| 30-JUN-2025