



Line laser, red, 650 nm, 60°, 3 mW

ARD-LASER-MLI650-3-5(10X27)
Order Number: 70146738

Main Parameters (*)	min	typ	max	Unit
Wavelength	645	650	655	nm
Optical Output Power	2	3	4	mW
Operating Voltage	4.5	5	5.5	V DC
Operating Current	5	10	30	mA
Operating Temperature	-10		50	°C
Storage Temperature	-20		65	°C

Main Data

Warranty	1 years
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Technical Parameters

Lifetime	> 3,000 h
RoHS	yes

Optical Parameters

Beam Shape	Line
Laser Class	2
Divergence	J - 2.0 mrad
Fan Angle	60°
Line Thickness	<3 mm@1m
Operating Distance	1 m
Optics	acryl lense
Laser technology	Single Mode Diode
Focus	collimated

Electrical Parameters

Potential of Housing	VDD(+)
Max. Mod. Frequency	200 kHz
Power Supply	Power Supply with stripped/tinned wires, Output: 5V DC, Input: 100-240V AC, 50-60Hz, Output Power: 3W max.

Mechanical Parameters

Size	Ø10x27 mm
Material	Brass
Cable length	250 mm

Wire type	26AWG, 0,14mm²
Housing Color	brass
Weight	6 g

(*) Over the complete operating temperature range

Features



- Operating voltage 5V DC
- Laser class 2
- Compact design
- Pre-set focus
- Connector for Arduino
- Raspberry PI
- ESP8266
- And ESP32

Picture



Cable color

Positive		red	4.5 - 5.5, typ 5V DC
Ground		black	GND
Modulation		yellow	≤ 200 kHz

Safety Label



Valid Revision

| 05-SEP-2025