

Laser module red, 12x45mm, 0.5mW, 650nm, line

Product codes:

Reference: AM7319

EAN13: -

UPC: 90132000

Product features:

Light color: Red

Wavelength: 650 nm

Voltage: 3-5 V DC

Output power: 0,5 mW

Waterproof grade: IP50

Safety class (IEC 60825-1): 2



Product attributes:

Product description:

The compact red laser module with a diameter of 12 mm and a length of 45 mm is designed for precise lines and aiming in industrial and hobby applications. Thanks to the low power of 0.5 mW, it falls into the safe laser class and is suitable for long-term operation without significant heating.

Technical specifications

- Dimensions: 12 mm (Ø) × 45 mm (length)
 - Wavelength: 650 nm (red light)
 - Output power: 0.5 mW (Class I)
 - Operating voltage: 3 V-5 V DC
 - Spot pattern: line (adjustable line)
 - Body material: aluminum (blackened)
 - Lens type: PMMA
 - Connector: 1 m cable with DC 5.5×2.1 mm
 - Operating temperature: -10 °C to +50 °C
 - Storage temperature: -40 °C to +85 °C
 - MTTF: > 8,000 hrs
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- Protection: IP50 (suitable for indoor use)
- Weight: 35g

Functions and features

- Precise red line for measuring, cutting, guiding and aligning.
- Adjustable optics – clean and even line drawing.
- Stable brightness thanks to ACC/APC control of the laser diode.
- Suitable for power supply from 3–5 V DC sources.
- Durable all-metal body with good thermal stability.

Ideal for

- Laser alignment and positioning systems.
- Machine production, cutting, guiding and marking of material.
- Sewing/woodworking line projection.
- DIY projects, robotics and measuring devices.

Package contents

- Laser module 12×45 mm, 650 nm – 0.5 mW
- No Mount version – without holder
- Without power adapter

Why choose this product?

- Compact professional laser in the safety class for wide use.
- High durability and stable optical performance.
- Universal 3-5V DC power supply for easy integration.
- Ideal for precision industrial and domestic applications.

Product gallery:

