Laser module red, 1mW, 650nm, line

Reference: AM5551
EAN13: -
HS code: 90132000

Product attributes:

Product features:

Light color: Red
Wavelength: 650 nm
Voltage: 3-5 V DC
Performance: 1 mW
Waterproof grade: IP20
Appearance: Line
Safety class (IEC 60825-1): 2

Product description:

The compact 1mW industrial laser module with a wavelength of 650nm is ideal for precise aiming, marking or alignment in applications where a fine red laser beam is required. The module offers adjustable focus and a line or cross pattern, making it suitable for assembly and inspection systems, CNC machines or laboratory measurements.

Technical specifications

- **Dimensions:** Ø12×45 mm (built-in PCB board)
- **Housing material:** anodized aluminum (blackening)
- **Lens:** PMMA
- **Wavelength:** 650 nm (red light)
- **Output power:** 1 mW (typically 0.7–0.9 mW)
- **Projection pattern:** 110° line
- **Operating mode:** APC/ACC (automatic power control)
- **Supply voltage:** 3-5 V DC
- **Connector:** 1m cable with DC connector 5.5×2.1 mm
- **Operating temperature:** −10 °C to +50 °C
- **Storage temperature:** −40 °C to +85 °C
- **Mean time between failures (MTBF):** > 8,000 hours

Functions and features

- Adjustable focus allows line size to be adjusted according to distance and surface.
- The integrated APC/ACC circuit ensures stable performance even when power supply fluctuates.
- The aluminum body guarantees effective heat dissipation and long service life.
- Can be mounted using a standard or 3-axis mount (optional accessory).

Ideal for

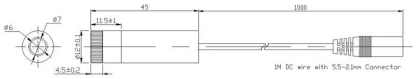
- Industrial and laboratory measurements
- Machine and CNC applications
- Alignment and positioning systems
- Laser pointers and reference lines

Package contents

- Laser module 650nm, 1mW, Ø12×45mm

Why choose this product?

- Stable performance and long service life thanks to high-quality construction
- Safe, low-power Class II laser suitable for precision applications
- Compact dimensions and easy integration into devices
- Adjustable line or cross pattern for versatile use


45
1000
ø7
ø6
11.5±1
ø12±0.1
4.5±0.2
1M DC wire with 5.5-2.1mm Connector