

Laser module red, 1mW, 650nm, line

Product codes:

Reference: AM5551

EAN13: -

UPC: 90132000

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 attributes:

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
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- **Operating temperature:** $-10\text{ }^{\circ}\text{C}$ to $+50\text{ }^{\circ}\text{C}$
- **Storage temperature:** $-40\text{ }^{\circ}\text{C}$ to $+85\text{ }^{\circ}\text{C}$
- **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, $\text{Ø}12\times 45\text{mm}$

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

Product gallery:

