Laser module red 635nm, 12x45mm, grid 10x10

Reference: AM0698
EAN13: -
HS code: 90132000

Product attributes:

Performance: 50 mW, 100 mW, 200 mW

Product features:

Light color: Red
Voltage: 3-5 V DC
Waterproof grade: IP20
Lifetime: 8,000 hours

Product description:

The powerful red laser module with diffraction grating (DOE) produces a precise 10x10 grid, which is ideal for measurement, alignment, positioning and visual projections. The robust metal body, stable 5V power supply and long life make this module a reliable solution for professional industrial and creative applications.

Technical specifications

- Dimensions: 12 mm (Ø) × 45 mm (length)
- Wavelength: 635 nm (red light)
- Power: 50 mW, 100 mW, 200 mW (depending on variant)
- Operating voltage: 5V DC
- Laser pattern: DOE – 10×10 Grid
- Body material: aluminum/brass
- Lens: PMMA
- Operating temperature: −10 °C to +40 °C
- Storage temperature: −40 °C to +85 °C
- MTTF: > 8,000 hrs
- Connector: 1 m cable with DC 5.5 × 2.1 mm
- Protection: IP50 (suitable for indoor use)
- Weight: 35g

Functions and features

- Diffraction optics create a precise and uniform 10×10 laser grating.
- High luminosity suitable for demanding industrial applications.
- 5V power supply allows easy integration into most devices.
- The metal body ensures good thermal stability and long service life.
- Stable output thanks to integrated APC/ACC control.

Ideal for

- Alignment and positioning in production.
- Machine processing of wood, metals and other materials.
- Optical effects, stage use and projection systems.
- Measurement, surface marking and visual guidance.
- Positioning in robotics and automation.

Package contents

- Laser module 12×45 mm – DOE 10×10 grating

Why choose this product?

- High-precision DOE optics for high-quality grating projection.
- Performance variants for different visibility levels and environments.
- Robust construction and long service life.
- Easy integration into industrial equipment and your own projects.
- An ideal choice for precise measurement, positioning or visual highlighting.