Infrared laser module, 8x20mm, 850nm

Product codes:

Reference: AM6739
EAN13: -
UPC: 90132000

Product features:

Light color: Infrared
Voltage: 3-5 V DC
Waterproof grade: IP50

Product attributes:

Performance: 0,5 mW, 1 mW, 5 mW

Product description:

The compact infrared laser module with a diameter of 8 mm and a length of 20 mm is designed for applications requiring invisible IR light at a wavelength of 850 nm. The module offers stable performance, a PMMA lens and a precise IR spot suitable for industry, medical devices, biochemical systems or laser tag devices.

Technical specifications

- Dimensions: 8 mm (Ø) × 20 mm (length)
- Wavelength: 850 nm (IR – almost invisible to the human eye)
- Power variants: 0.5 mW (Class I) / 1 mW (Class II) / 5 mW (Class IIIA)
- Operating voltage: 3V/5V DC
- Operating current: 15–55 mA, max. up to 100 mA (depending on power)
- Light type: Spot
- Optics: PMMA
- Beam divergence: 1 mrad (PMMA)
- Body material: brass/aluminum
- Operating temperature: −10 °C to +40 °C
- Storage temperature: −40 °C to +85 °C

- MTTF: > 8,000 hrs
- Connector: 150 mm UL1571 wire (red/black)
- Protection: IP50 (indoor use)
- Weight: 22g

Functions and features

- Invisible IR beam – ideal for covert and sensor applications.
- Lens selection – PMMA for standard use
- Stable performance thanks to the integrated APC/ACC driver.
- Compact dimensions for easy integration into OEM equipment.
- High durability and low temperature sensitivity.

Ideal for

- Laser Tag systems and IR targeting.
- Industrial sensors, switching units and object detection.
- Biochemical and laboratory equipment.
- Security and optoelectronic applications.
- Special measuring or diagnostic equipment.

Package contents

- IR laser module 8x20 mm - 850 nm
- Without power adapter

Why choose this product?

- High precision and quality IR spot for professional use.
- Possibility to choose power and lens type.
- Compact and easy-to-integrate module into OEM designs.
- Reliable operation with a very long service life.
- An ideal choice for IR systems where stability and inconspicuousness are important.

Product gallery: