

Laser module violet 405nm, IP67 - line

Reference: AM3280

EAN13: -

HS code: 90132000

Product attributes:

Performance: 10 mW, 30 mW, 50 mW, 80 mW, 100 mW, 150 mW, 200 mW



Product features:

Light color: Purple
Wavelength: 405 nm
Voltage: 5 V DC
Cable length: 100 cm
Connector: 5.5x2.1 mm
Waterproof grade: IP67
Lifetime: 8,000 hours
Beam angle: 110°
Appearance: Line

Product description:

Waterproof laser module with a blue-violet beam with a wavelength of 405 nm designed for precise line projection. The short wavelength provides a very sharp and contrasty projection, which is particularly suitable for technical, laboratory and industrial applications. Thanks to the IP67 protection, the module is protected against dust and water and can be used even in demanding operating conditions. Glass optics allow precise focusing of the line width with the possibility of mechanical locking.

Technical specifications

- Wavelength: 405 nm (violet)
- Beam shape: line
- Beam angle: 110°
- Optical power (variants): 10 mW, 30 mW, 50 mW, 100 mW, 150 mW, 200 mW
- Real output power:
 - 10mW (7.5–8.5mW)
 - 30mW (18–24mW)
 - 50mW (38–45mW)
 - 100mW (75–95mW)
 - 150mW (100–120mW)
 - 200mW (130–150mW)
- Operating mode: CW (continuous light)
- Current control: APC
- Supply voltage: 5V DC
- Operating current: 500 mA
- Connector type: DC 5.5×2.1mm/5.5×2.5mm
- Cable length: 100 cm
- Housing material: aluminum
- Optics material: glass
- Module dimensions: diameter 20 mm × length 90 mm
- Weight: 65g
- Protection: IP67
- Operating temperature: -10°C to +50°C
- Storage temperature: -40°C to +85°C
- Mean Time to Failure (MTTF): > 8,000 hours

Functions and features

- Waterproof design with IP67 protection
- Short wavelength 405 nm for very sharp projection
- Focusable glass optical lens
- Focus lock using a locking ring
- Stable output power thanks to APC/ACC regulation
- Adjustable projection line width
- Robust aluminum housing with effective heat dissipation

Ideal for

- Laser positioning with high precision requirements
- Industrial and laboratory applications
- Measurement and calibration systems
- Technical marking and control processes
- Special applications requiring short wavelength
- Outdoor installations exposed to moisture and dust

Package contents

- Waterproof 405nm laser module

Why choose this product?

- IP67 protection for operation in harsh environments
- Very sharp and contrasting line projection
- Precise mechanical focusing
- Stable operation and long service life
- Professional aluminum construction
- Wide range of performance options

