

Laser module, 5mW, 405nm, line

Reference: AM0068

EAN13: -

HS code: 90132000



Product attributes:

Product features:

Light color: Purple
Wavelength: 405 nm
Performance: 5 mW
Waterproof grade: IP20
Appearance: Line

Product description:

Compact and precise line laser module with a wavelength of 405nm, aluminum body and focusable lens offers projection in the form of a point, line or cross (optional). Ideal for aiming, marking or various optical applications. Thanks to the focusing option and wide projection angle (120°) it is also suitable for more demanding projects with requirements for precise line output.

Technical specifications

- Wavelength: 405 nm (violet laser)
- Output power: 5mW
- Working voltage: DC 3-5V
- Working temperature: +15 °C to +35 °C
- Duty cycle: 45 s on / 15 s off
- Beam shape: line (120°)
- Focusing option: yes (focusable output)
- Body material: anodized aluminum
- Dimensions: 12 × 35 mm
- Cable length: approx. 100 mm
- Protection class: IP20 (for indoor use)
- Certification: CE, RoHS

Functions and features

- High precision and stability of the light spot
- Possibility of projecting a line at an angle of up to 120° or a cross (optional)
- Focus function to adjust projection size and sharpness
- Compact design with aluminum body for optimal heat dissipation
- Low power consumption and no need for external cooling

Ideal for

- Precise line marking in industrial applications
- Laser aiming and optical tests
- DIY electronic projects and CNC machines
- Educational experiments and demonstrations of laser phenomena

Package contents

- 1× 405nm laser module

Construction

During assembly, it is necessary to electrically isolate the laser module from other metal parts. The laser diode usually has one pole connected to a metal housing, which serves as a heat sink. A direct conductive connection could damage the diode. At the same time, we recommend using antistatic agents, avoiding clothing that generates electrostatic charge, and touching a grounded object (e.g. a heater or water pipe) before handling.

Cooling

The module does not require any additional cooling due to its low power and efficient heat dissipation. It is also suitable for closed installations without the risk of overheating or shortened lifespan.

