

DATASHEET



FEATURES

- ✓ High Visibility Line
- ✓ Adjustable Focus
- ✓ Custom Options Available

APPLICATIONS

- ✓ Measurement
- ✓ Bioanalytical
- ✓ Automation and Alignment

Operational Hazard of Laser Module

This laser module emits radiation that is visible/invisible and harmful to human eye. When in use, do not look directly into the laser emitting aperture. Direct viewing of laser diode emission at close range may cause eye damage.



Limited Warranty

One year. No warranty coverage for disassembly, modifications, or damage due to abuse or misapplication.



SPECIFICATIONS

OPTICAL

Wavelength	450 ± 5 nm
Optical Output Power	Up to 50 mW
Laser Power Stability	< 1% (with heat sink)
Laser Structure	Single Mode
Laser Focus	Adjustable or Fixed (Optional)
Laser Beam Size	Focusable to < 0.5 mm at short distance (0.5 m) 5mm when Collimated
Laser Class	See Below
Divergence at collimation	< 1 mrad

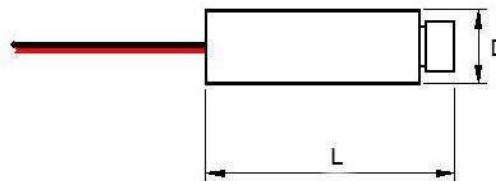
ELECTRICAL

Operating Voltage	3.3 to 5 V DC
Operating Current	< 250 mA
Control Circuit	APC/ACC (depends on power)
Electrical Connections	+Red, -Black

MECHANICAL

Dimension	15 mm (D) x 51 mm (L)
Operating Temperature	+10°C to +50°C
Storage Temperature	-40°C to +80°C
Heat Sink Requirements	Recommended for extended use

OUTLINE DRAWING



Part Number	Power	Class
HP-5G-450	< 5 mW	IIIA
HP-10G-450	10 mW	IIIB
HP-25G-450	25 mW	IIIB
HP-35G-450	35 mW	IIIB
HP-50G-450	50 mW	IIIB