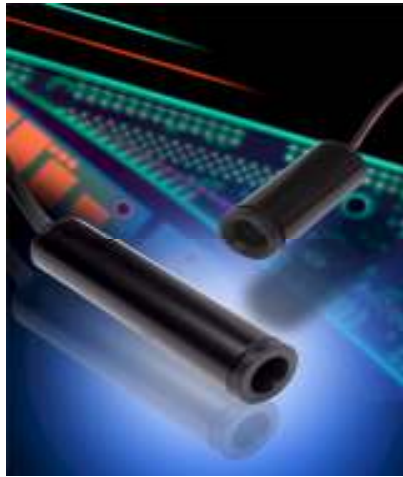


HP-series Violet Laser Diode Module



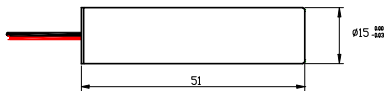
Product Features

- High Stability and low noise
- Custom Options available
- Modulation upto 3KHz available

Applications

- Measurement
- Bioanalytical
- Automation and Alignment

Mechanical Drawing



Operational Hazard-Semiconductor Laser Diode Module:

This laser module emits radiation that is visible 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	405 +/-5 nm
Optical Output Power	5, 10, 20, 40, 50 mW
Laser Structure	Single Mode
Stability	< 1% at constant operating temperature
Laser Focus	Adjustable (default); Fixed (Optional)
Laser Beam Size	Adjustable down to less than 50 micron at short distances. 5 mm when collimated.
Laser Class	See table below.
Divergence at collimation	<1 milliradian

ELECTRICAL

Operating Voltage	3-5VDC
Operating Current	<250 mA
Control Circuit	ACC or APC (depends on power)
Electrical Connections	+Red, -Black

MECHANICAL

Dimension	15mm(D)x 51mm (L)
Cable	200mm
Operating Temperature	+10°C to +50°C
Storage Temperature	-40°C to +80°C
Heat Sink Requirements	Recommended for extended use

Caution: The case is internally connected to the circuit; damaging to the anodized surface may result in failure of the laser module.

Ordering Information and Part Number

Part Number	Power	Class
HP5-5G-405	<5 mW	Class IIIA
HP5-10G-405	10 mW	Class IIIB
HP5-20G-405	20 mW	Class IIIB
HP5-40G-405	40 mW	Class IIIB
HP5-50G-405	50 mW	Class IIIB

Class IIIB Lasers are sold for OEM purposes only. OEM responsible for compliance with all applicable safety regulations.

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