

# 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	520 ± 5 nm
Optical Output Power	Up to 80 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

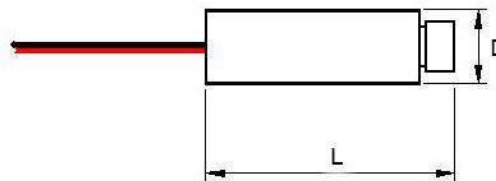
#### ELECTRICAL

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-1G-520	< 1 mW	II
HP-5G-520	< 5 mW	IIIA
HP-10G-520	10 mW	IIIB
HP-50G-520	50 mW	IIIB
HP-80G-520	80 mW	IIIB