

UH Series Near Infra Red Laser Diode Module



Part No: UH5-65G-642



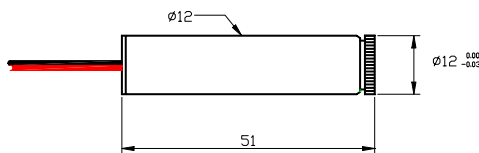
Product Features

- High Stability and low noise
- Collimated or Adjustable focus beam
- Reverse Polarity Protection

Application

- Measurement
- Biomedical
- Photodynamic therapy
- Automation

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.

Specification

OPTICAL

Wavelength ¹	642* nm
Optical Output Power	65 mW
Stability	<1%
Wavelength Drift	0.2nm/°C
Noise (20MHz Bandwidth)	<0.5% RMS
Laser Class	Class IIIB
Laser Operation	Continuous
Laser Structure	Single Mode Laser
Divergence at collimation	<0.5 milliradian
Spot Size	Elliptical, Adjustable
Minimum Spot Size	<60µm at <10" distance
Pointing Stability	<50µrad

ELECTRICAL

Operating Voltage	3 to 5 VDC
Operating Current	<180 mA
Control Circuit	Auto Power Control
Electrical Connections	+Red, -Black

MECHANICAL

Dimension	12mm(D)x 51mm (L)
Cable	200mm
Operating Temperature	-10°C to +50°C
Storage Temperature	-40°C to +80°C
Heat Sink Requirements ²	Recommended for extended use

Notes

1. Nominal wavelength. Actual wavelength can be between 639 to 645 nm. Wavelength measurement available.

2. Heat Sink: The UH Series Red Laser Diode Module is designed to dissipate heat through its body. Do not use a thermally insulating material for mounting. Do not restrict air circulation around the device. An additional heat sink should be used to maximize the performance and life time of the laser.

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



UH5-65G-642 is sold only for use in OEM equipment. The OEM is responsible for compliance with all applicable safety regulations

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