

# UH Series Red Laser Diode Module

Part No: UH5-100G-658



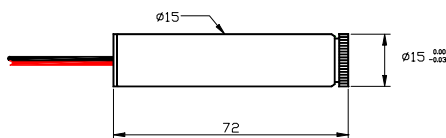
## Product Features

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

## Application

- Measurement
- Bioanalytical
- Automation
- 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.

## Specification

### OPTICAL

Wavelength <sup>1</sup>	658 nm
Optical Output Power	100 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 the collimation	<0.5 milliradian
Spot Size	Adjustable Or Collimated(5mm)
Minimum Spot Size	<60µm at <10" distance
Bore sight Accuracy	<2.5mm/m
Pointing Stability	<50µrad

### ELECTRICAL

Operating Voltage	3.5 to 5 VDC
Operating Current	<120 mA
Control Circuit	Auto Power Control
Electrical Connections	+Red, -Black

### MECHANICAL

Dimension	15mm(D)x 72mm (L)
Cable	200mm
Operating Temperature	-10°C to +50°C
Storage Temperature	-40°C to +80°C
Heat Sink Requirements <sup>2</sup>	Recommended

### Notes

1. 658nm is the nominal wavelength. The actual wavelength can vary between 650 to 665nm.

2. Heat Sink: The UH5-100G-658 is designed to dissipate heat through its body. Do not restrict air circulation around the device. An additional heat sink should be used to maximize the performance and the life of the module.

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



UH5-100G-658 is sold solely for OEM use. OEM responsible for compliance with all applicable safety regulations.