

# UH Series Infrared Laser Diode Module

Part No: UH5-100G-830



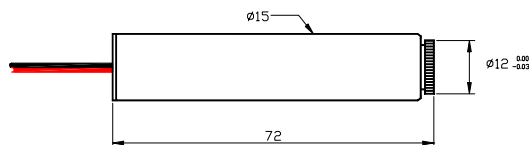
## Product Features

- 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 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.

## Specification

### OPTICAL

Wavelength	830 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	Multimode
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 to 5 VDC
Operating Current	< 200 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*	Recommended for extended use

\* 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 the anodized surface may result in failure of the laser module.



UH5-100G-830 Laser System does not comply with CDRH1040.10. It is sold only for use in OEM equipment. The OEM is responsible for compliance with all applicable safety regulations