

UH Series Red Laser Diode Module



Part No: UT5-20G-658



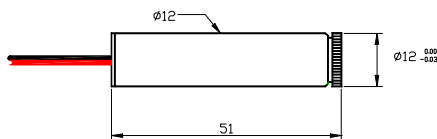
Product Features

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

Applications

- 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 misapplications

Specifications

OPTICAL

Wavelength	658 nm
Optical Output Power	20 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	Adjustable Or Collimated(5mm)
Minimum Spot Size	<120µm at <10" distance
Pointing Stability	<50µrad

ELECTRICAL

Operating Voltage ¹	3.3 to 5 VDC
Operating Current	<120 mA
Control Circuit	Auto Power Control
Electrical Connections	+Red, -Black, White (TTL)
TTL Input ¹	Low (0~0.8 V), High (3~5 V)

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. For CW Operation: Connect the white wire to the red wire. **TTL voltage should never exceed operating voltage**
2. Heat Sink: The UT 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 can 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.



UT5-20G-658 is sold only for use in OEM equipment. The OEM is responsible for compliance with all applicable safety regulations

World Star Tech.

185 Konrad Cres., Markham, ON L3R 8T9 Canada
Tel: (416) 363-3332 Fax: (416) 363-3112 www.worldstartech.com



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