UT5-50G-980 LASER DIODE MODULE

DATASHEET



FEATURES

- Adjustable Focus Beam
- High Stability & Low Noise
- ESD & Reverse Polarity Protected
- 3MHz Modulation

APPLICATIONS

- Measurement
- Automation
- 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.



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SPECIFICATIONS

FECIFICATIONS	
OPTICAL	
Wavelength	980 nm
Optical Output Power	50 mW
Laser Power Stability (with heat sink)	< 1%
Wavelength Drift	0.2nm/°C
Laser Class	Class IIIB
Laser Operation	Continuous
Laser Structure	Single Mode Laser
Divergence (at collimation)	< 1 mrad
Spot Size	Elliptical Adjustable (default) Or Collimated (5mm) at 1m
Min Spot Size	< 100 µm at < 10" distance
ELECTRICAL	
Operating Voltage	3.3 to 5V DC
Operating Current	< 200 mA
Control Circuit	Constant Current Control
Electrical Connections	+ Red, - Black, White (TTL)
TTL Input ¹	Low (0-0.8V), High (3-5V)
MECHANICAL/ENVIRONMENTAL	
Dimension, mm	12mm (D)X 51mm (L)
Cable	200mm
Operating Temperature	+10°C to +50°C

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1.For CW Operation connect the white wire to the red wire. TTL voltage should never exceed the operating voltage

2. This laser 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.

-40°C to +80°C

Recommended for extended use

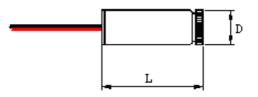
UT Series Infrared Laser is sold only for use in OEM equipment. OEM responsible for compliance with all applicable safety regulations

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

OUTLINE DRAWING

Storage Temperature

Heat Sink Requirements²



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