

# DATASHEET



### FEATURES

- ✓ Adjustable Focus Beam
- ✓ High Stability & Low Noise
- ✓ ESD & Reverse Polarity Protected
- ✓ 1MHz 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.



## SPECIFICATIONS

### OPTICAL

Wavelength	635 nm
Optical Output Power	1 mW
Laser Power Stability (with heat sink)	< 1%
Wavelength Drift	0.2nm/°C
Laser Class	Class 2
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	< 30 mA
Control Circuit	Auto Power Control
Electrical Connections	+ Red, - Black, White (TTL)
TTL Input <sup>1</sup>	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
Storage Temperature	-40°C to +80°C
Heat Sink Requirements <sup>2</sup>	Recommended for extended use

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.

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

## OUTLINE DRAWING

