

# **DATASHEET**



## **FEATURES**

- ✓ Fixed Focus Beam
- High Stability and Low Noise
- **ESD & Reverse Polarity** Protected
- Low Cost

### **APPLICATIONS**

- Measurement
- Bioanalytical
- Automation and 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	650 nm
Optical Output Power (after line optics)	< 1 mW
Stability	<1%
Wavelength Drift	0.2nm/°C
Noise (20MHz Bandwidth)	<0.5% RMS
Laser Operation	Continuous
Laser Structure	Single Mode Laser
Line Thickness	Collimated Fixed
Minimum Line Thickness	<2mm up to 1 meter

## **ELECTRICAL**

Operating Voltage <sup>1</sup>	3 to 5 VDC
Operating Current	<40 mA
Control Circuit	Auto Power Control
Electrical Connections	+Red, -Black

# MECHANICAL/ENVIRONMENTAL

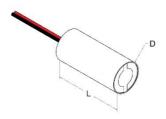
Dimension	9mm (D) X 25mm (L)
Cable	380mm
Operating Temperature	-10°C to +50°C
Storage Temperature	-40°C to +80°C
Heat Sink Requirements <sup>2</sup>	Recommended

#### Notes

- 1. Please ensure there is no voltage surge.
- 2. Heat Sink: The FLL Series Red Laser Line Module is designed to dissipate heat through its body. 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

# **OUTLINE DRAWING**











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