

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	3.5 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 ¹	3 to 5 VDC
Operating Current	<45mA
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 ²	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

