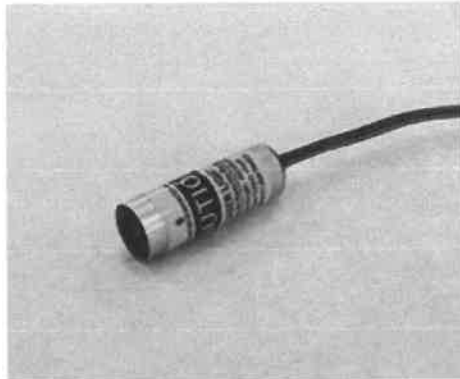


LR-1-650 Laser Module



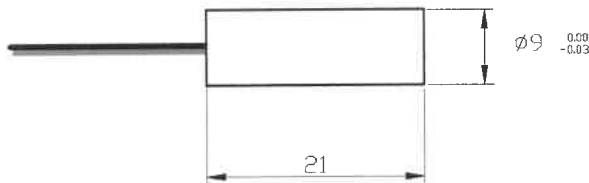
Product Features

- High Stability and low noise
- Collimated Beam
- Reverse Polarity Protection
- Low Cost

Applications

- Measurement
- Automation
- Alignment

Mechanical Drawing



Operational Hazard-Semiconductor Laser Diode Module:
This laser module emits radiation that is visible 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	1 mW
Stability	<1%
Wavelength Drift	0.2nm/°C
Laser Class	Class II
Laser Operation	Continuous
Laser Structure	Single Mode Laser
Divergence at the collimation	2 milliradian
Spot Size	3 mm round beam

ELECTRICAL

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

MECHANICAL

Dimension	9mm(D)x 21mm (L)
Cable	380 mm
Operating Temperature	-10°C to +50°C
Storage Temperature	-40°C to +80°C
Heat Sink Requirements*	Recommended for extended use

* Heat Sink: The LR Series Laser Module is designed to operate without heat sink. 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; please do not connect the body to ground.



Complies with CDRH 21CFR 1040.10

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A WORLD OF ELECTRONICS Reg. No. 1979/003717/07

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