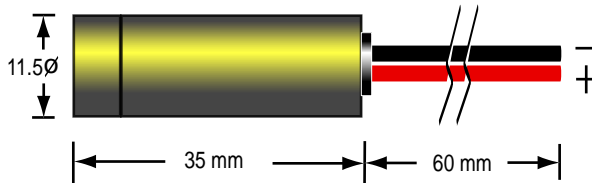


# LEM Series Red Laser Line Module

Part No: LEM-1235-50xx-SLx

## Mechanical Drawing



## Product Features

- High Stability and low noise
- Collimated or Adjustable focus beam
- Reverse Polarity Protection
- Custom Options Available

## Application

- Measurement
- Optical Instrument
- Automation
- Alignment
- Line Mark

## Model Number Definition:

LEM- _____ - _____ - _____						
diameter	total length	wavelength	output	lens	beam	angle
65:6.5mm	20:20mm	50:650nm	01:0.8mW	G:glass	P:point	
80:8.0mm	23:23mm	35:635nm	05:5mW	S:plastic	L:line	1:5°
10:10mm	27:27mm		10:10mW			2:20°
11:11mm	32:32mm		20:20mW			3:30°
12:11.5mm	35:35mm					6:60°
						9:90°

## Specification

### OPTICAL

Wavelength	650 nm
Optical Output Power <sup>1</sup>	<10mW or < 5 mW or <1mW
Stability	<1%
Wavelength Drift	0.2nm/°C
Noise (20MHz Bandwidth)	<0.5% RMS
Laser Operation	Continuous
Laser Structure	Single Mode Laser
Focus Lens	PMMA plastic lens
Line Angle	5° / 20° / 30° / 60° / 90°

### ELECTRICAL

Operating Voltage <sup>2</sup>	3 or 4.5 VDC ( 3~6VDC)
Operating Current	<40 mA
Control Circuit	Auto Power Control
Electrical Connections	+Red, -Black

### MECHANICAL

Dimension	See chart
Cable <sup>3</sup>	60mm
Operating Temperature	-10°C to +50°C
Storage Temperature	-40°C to +80°C

### Notes

1. Please advise output power in advance, we can release Class II (under 1mW) or Class IIIa (under 5mW) or Class III (under 10mW) for different market.
2. Input power can be fixed in 3 to 5 certain DC voltage, or 3~6V DC range input within fix output is available (regulator inside).
3. Standard cable length is 60mm, there are 100/150/200mm or with connector for your special need.

**Caution:** TThe cooper is internally connected to the circuit + pole, wrong connection may damage the laser module.

**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.

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