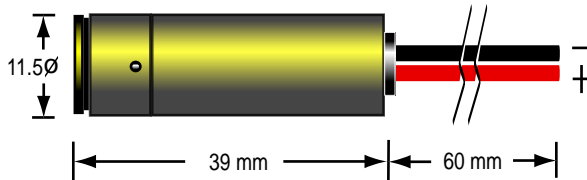


# LEM Series Red Laser Line Module

Part No: LEM-1239-350x-GLx

## 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                        | 635 nm                     |
| Optical Output Power <sup>1</sup> | < 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                        | 3 elements Glass lens      |
| Line Angle                        | 5° / 20° / 30° / 60° / 90° |

### ELECTRICAL

|                                |                    |
|--------------------------------|--------------------|
| Operating Voltage <sup>2</sup> | 3 ~ 6 VDC          |
| 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) for different market.
2. Output is fixed when Input power from 3 to 6 VDC
3. Standard cable length is 60mm, there are 100/150/200mm or with connector for your special need.

**Caution:** The copper 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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