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## 3.0mW 670nm, Miniature LDM Laser Diode



Stock #53-233 **3 In Stock**

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**Note:** This item requires accessories for use | [Learn More](#)

### Product Downloads



### General

Index Guided Diode, CW **Type:**

**Mean Time To Failures MTTF @ 25° (hours):**  
≥120,00

**Note:**  
Includes: Users Manual, Warning Label, and Focus Key

**Type of Laser:**

Diode

Laser Class - CDRH:

IIIa

## Physical & Mechanical Properties

Weight (g):

9.5

Pointing Accuracy (mrad):

≤25

Length of Leads (mm):

215

Length (mm):

37.00

## Optical Properties

Wavelength (nm):

670.00

Beam Size at Nearest Focus (μm):

<0.525

Beam Diameter (mm):

4 x 2 at Aperture

Beam Divergence (mrad):

<0.5

Color:

Red

Focus Range (mm):

35mm - ∞

## Electrical

Operating Current (mA):

<0.550

Output Power (mW):

3 (Maximum)

Output Power Tolerance (%):

±5

## Hardware & Interface Connectivity

Power Supply:

Power Supply Required and Sold Separately.

USA: [#59-099](#)

Europe: Not Available

Japan: [#59-099](#)

Korea: Not Available

China: [#59-099](#)

Power Requirement:

3.5 - 5 VDC

Electrical Leads/ Pin Connections:

red (+), black (-)

Output Type:

Free Space

## Environmental & Durability Factors

Operating Temperature (°C):

-10 to +55

Storage Temperature (°C):

-40 to 85

## Regulatory Compliance

RoHS 2015:

[Compliant](#)

Certificate of Conformance:

[View](#)

Reach 240:

[Compliant](#)

## Product Details

- Line Generation Optics Available
- Bare Leads for Instrument Integration
- Focusable from 35mm to Infinity

Self-contained and miniature, laser diode modules offer a variety of features. They are an ideal replacement for a helium-neon laser in many applications, and offer the benefits of superior durability, small size, and a range of wavelengths and powers. Elliptical output beams are produced using a user-adjustable glass focusing lens. Circular output beams are produced using a long focal length plastic lens and are suitable for long distance and alignment applications. Applications include use as pilot beams for alignment, bar code readers, measurement, dimensional scanning, robotic control, target designation, positioning, and analysis. Focusing tool included with all diode modules. Line Generator attachments are available for all diode modules listed. [Power Supply](#), required for operation, sold separately.

**Note:** Laser diode case is electrically isolated from supply voltage.

# Technical Information

