

## 1mW 850nm Compact LDM Laser Diode Module



Stock #72-820 **2 In Stock**

- 1 + A\$302<sup>40</sup>

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Volume Pricing	
Qty 1-9	A\$302.40 each
Qty 10+	A\$287.28 each
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### Product Downloads



### General

Type:  
Index Guided Diode, CW

Mean Time To Failures MTTF @ 25° (hours):  
≥88,000

Drive Circuitry:  
Fully shielded, reverse polarity protected

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

Diode **Type of Laser:**

IIIb **Laser Class - CDRH:**

## Physical & Mechanical Properties

22.00 **Weight (g):**

<25 **Pointing Accuracy (mrad):**

215 **Length of Leads (mm):**

49.00 **Length (mm):**

## Optical Properties

850.00 **Wavelength (nm):**

±10nm **Wavelength Tolerance (nm):**

0.25 **Wavelength Stability (nm/°C):**

<50 **Beam Size at Nearest Focus (µm):**

5 at Aperture **Beam Diameter (mm):**

<0.5 **Beam Divergence (mrad):**

IR **Color:**

150mm -∞ **Focus Range (mm):**

## Electrical

<40 **Operating Current (mA):**

1 (Maximum) **Output Power (mW):**

±5 **Output Power Tolerance (%):**

## 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](#)

3.5 - 5 VDC **Power Requirement:**

red (+), black (-) **Electrical Leads/ Pin Connections:**

Free Space **Output Type:**

## Environmental & Durability Factors

-10 to +55 **Operating Temperature (°C):**

-10 to +85 **Storage Temperature (°C):**

## Regulatory Compliance

[Compliant](#) **RoHS 2015:**

[View](#) **Certificate of Conformance:**

[Compliant](#) **Reach 240:**

## Product Details

- Circular and Elliptical Beam Options
- Bare Leads for Instrument Integration
- Focusable from 20mm to Infinity

Compact LDM Focusable Laser Diode Modules are self-contained and compact and 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. Compact LDM Focusable Laser Diode Modules applications include use as pilot beams for alignment, bar code readers, measurement, dimensional scanning, robotic control, target designation, positioning, and analysis. There is a focusing tool included with all diode modules. Line Generator attachments are available and sold separately for all diode modules listed. [Power Supply](#) is required for operation and is sold separately.

Note: The laser diode case is electrically isolated from the supply voltage.

## Technical Information

