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## 0.9mW 655nm, Micro LDM Laser Diode



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

### Product Downloads



### General

**Mean Time To Failures MTTF @ 25° (hours):**  
≥50,000

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

**Type of Laser:**  
Diode

**Laser Class - CDRH:**

## Physical & Mechanical Properties

3 **Weight (g):**

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

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

27.40 **Length (mm):**

## Optical Properties

655.00 **Wavelength (nm):**

<40 **Beam Size at Nearest Focus (µm):**

3 x 1 at Aperture **Beam Diameter (mm):**

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

Red **Color:**

50mm - ∞ **Focus Range (mm):**

## Electrical

<20 **Operating Current (mA):**

0.9 **Output Power (mW):**

±5 at 25°C **Output Power Tolerance (%):**

## Hardware & Interface Connectivity

**Power Supply:**  
Power Supply Required and Sold Separately.  
USA: [#59-099](#)  
Europe: Not Available  
Japan: [#59-099](#)  
Korea: [#33-771](#)  
China: [#59-099](#)

3.5 - 5 VDC **Power Requirement:**

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

Free Space **Output Type:**

## Environmental & Durability Factors

-10 to +45 **Operating Temperature (°C):**

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

## Regulatory Compliance

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

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

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

## Product Details

- 7mm Housing Diameter
- Focusable
- Low Voltage DC Operation
- Reverse Polarity Protection

Micro LDMLaser Diode Modules feature an extremely compact design that includes automatic power control circuits and focusable optics. The rugged body is low voltage isolated from the drive electronics, removing the need for negative or floating supplies. It has a highly visible red laser output that can be seen in most daylight conditions. Micro LDMLaser Diode Modules' additional features include aspheric lens, elliptical beam, small output beam diameter, and focused spot size. Meet IEC60825 certification, in accordance with CDRH. Applications include alignment/positioning, bar code readers, dimensional scanning, metrology, event detection, robot control, target designation, edge detection, analysis, and security.

Recommended power supply: [#59-099](#)

