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## 4.5mW 655nm Elliptical, Premier Laser Diode



Stock #57-112 **1 In Stock**

- 1 + MRP ₹31,223

**i** Price inclusive of all taxes

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Volume Pricing	
Qty 1-9	₹31,223 each
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**Note:** This item requires accessories for use | [Learn More](#)

### Product Downloads



### General

**Laser Class - IEC:**  
3R

**Mean Time To Failures MTTF @ 25° (hours):**  
>115,000

**Note:**

Includes: Users Manual, Warning Label, Wire Harness, and Focus Key

Diode **Type of Laser:**

IIa **Laser Class - CDRH:**

## Physical & Mechanical Properties

<0.005 **Pointing Stability after Warm Up (mrad°C):**

≤10 at Factory Set Focus **Pointing Accuracy (mrad):**

47.00 **Length (mm):**

## Optical Properties

655.00 **Wavelength (nm):**

±10 **Wavelength Tolerance (nm):**

0.25 **Wavelength Stability (nm°C):**

<45 **Beam Size at Nearest Focus (µm):**

5.5 x 2.5 at Aperture **Beam Diameter (mm):**

<0.2 Typical **Beam Divergence (mrad):**

Red **Color:**

50mm - ∞ **Focus Range (mm):**

## Electrical

≤50 **Operating Current (mA):**

4.5 **Output Power (mW):**

<2 **Power Stability (%):**

±5 **Output Power Tolerance (%):**

DC to 300kHz (at 95% modulation depth to -3dB) **Modulation Frequency (kHz):**

## Hardware & Interface Connectivity

5 DC ±5% **Operating Voltage (V):**

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

red (+V), black (-), yellow (Vcontrol), green/yellow (case) **Electrical Leads/ Pin Connections:**

Free Space **Output Type:**

## Environmental & Durability Factors

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

## Regulatory Compliance

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

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

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

United Kingdom **Country of Origin:**

**Imported By:**  
Edmund Optics India Private Limited  
267, Greystone Building, Second Floor,  
6th Cross Rd, Binnamangala,  
Stage 1, Indiranagar, Bengaluru,  
Karnataka, India 560038  
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## Product Details

- Stable Output
- True On/Off Pulsed Control
- Linear Amplitude or Time Modulation
- Low Power Consumption
- EMC/ESD Shielded
- Focusable

Premier Laser Diode Modules use advanced circuits and components to eliminate unwanted variations in output. A single input allows the light intensity to be set using a simple resistor or voltage source. The output can be modulated rapidly with any arbitrary waveform. Premier Laser Diode Modules contain an industrial quality laser diode with built-in monitoring photodiode. An efficient processor-controlled driver circuit is fully protected and matched to the diode. The stable, adjustable focus lens mounting and case is electrically isolated from the electronics. A 4-way connector provides supply, control, and shielding inputs. The modules meet IEC60825 certification, in accordance with CDRH. Applications for these laser modules include vision systems, telemetry, sensors, laboratory testing, and dynamic lighting.

A power supply, sold separately, is required for operation.

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