

## 4.5mW 655nm Elliptical, Premier Laser Diode



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

- 1 + £212.<sup>00</sup>

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### Volume Pricing

Qty 1+	£212.00 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

**Type of Laser:**

Diode

Laser Class - CDRH:

IIIa

## Physical & Mechanical Properties

Pointing Stability after Warm Up (mrad/°C):

<0.005

Pointing Accuracy (mrad):

≤10 at Factory Set Focus

Length (mm):

47.00

## Optical Properties

Wavelength (nm):

655.00

Wavelength Tolerance (nm):

±10

Wavelength Stability (nm/°C):

0.25

Beam Size at Nearest Focus (µm):

<45

Beam Diameter (mm):

5.5 x 2.5 at Aperture

Beam Divergence (mrad):

<0.2 Typical

Color:

Red

Focus Range (mm):

50mm - ∞

## Electrical

Operating Current (mA):

≤50

Output Power (mW):

4.5

Power Stability (%):

<2

Output Power Tolerance (%):

±5

Modulation Frequency (kHz):

DC to 300kHz (at 95% modulation depth to -3dB)

## Hardware & Interface Connectivity

Operating Voltage (V):

5 DC ±5%

Power Supply:

Power Supply Required and Sold Separately:

USA: [#59-099](#)

Europe: Not Available

Japan: [#59-099](#)

Korea: Not Available

China: [#59-099](#)

Electrical Leads/ Pin Connections:

red (+V), black (-), yellow (Vcontrol), green/yellow (case)

Output Type:

Free Space

## Environmental & Durability Factors

Operating Temperature (°C):

-10 to +45

## Regulatory Compliance

RoHS 2015:

[Compliant](#)

Certificate of Conformance:

[View](#)

Reach 240:

[Compliant](#)

## 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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