

4.5mW 635nm Elliptical, Premier Laser Diode



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1

+

₹25,200

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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):

>49,000

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):	
<0.01	
Pointing Accuracy (mrad):	
≤10 at Factory Set Focus	
Length (mm):	
44.00	
Optical Properties	
Wavelength (nm):	
637.00	
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	
Color:	
Red	
Focus Range (mm):	
50mm - ∞	
Electrical	
Operating Current (mA):	
≤75	
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	
Country of Origin:	
United Kingdom	
Imported By:	
Edmund Optics India Private Limited	

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.