

4.5mW 655nm Elliptical, Premier Laser Diode



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+

€250^{,00}

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

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SPECIFICATIONS

General

3R **Laser Class - IEC:**

Mean Time To Failures MTTF@25° (hours):

>115,000	
Note: Includes: Users Manual, Warning Label, Wire Harness, and Focus Key	
Diode	Type of Laser:
Laser Class - CDRH: IIIa	
Physical & Mechanical Properties	
Pointing Stability after Warm Up (mrad/°C): <0.005	
Pointing Accuracy (mrad): ≤10 at Factory Set Focus	
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 (%):
Modulation Frequency (kHz): DC to 300kHz (at 95% modulation depth to -3dB)	
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	
Electrical Leads/ Pin Connections: red (+V), black (-), yellow (Vcontrol), green/yellow (case)	
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:

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.
