

4.5mW 655nm Circular, Premier Laser Diode



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S\$406^{.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):
>100,000

Includes: Users Manual, Warning Label, Wire Harness, and Focus Key		Note:
Diode	Type of Laser:	
IIIa		Laser Class - CDRH:
Physical & Mechanical Properties		
Pointing Stability after Warm Up (mrad°C):		<0.01
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):		<50
Beam Diameter (mm):		2.00 at Aperture
Beam Divergence (mrad):		0.35 Typical
Color:		Red
Focus Range (mm):		20mm - ∞
Electrical		
Operating Current (mA):		≤120
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 +55
Regulatory Compliance		
RoHS 2015:		Compliant
Certificate of Conformance:		View
Reach 240:		Compliant

- 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.
