

632.8nm, 20mW Fiber-Coupled Frequency Stabilized Laser Diode



632.8nm Frequency Stabilized Laser Diodes (Free Space and Fiber-Coupled options shown)

Stock **#33-046** [CONTACT US](#)

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+

A\$12,800^{.00}

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General

Warm-Up Time (minutes):

2.00

Fiber Cable Type:

Single Mode w/3mm Dia Stainless Steel Shielding

Type of Laser:

Diode

Laser Class - CDRH:

IIIb

Physical & Mechanical Properties

71.0 L x 63.5 W x 19.8 H	Dimensions (mm):
135.00	Weight (g):
1	Length of Fiber (m):
<50 (8 Hours)	Pointing Stability (μrad):

Optical Properties	
0.13	Numerical Aperture NA:
4.3 MFD	Fiber Diameter (μm):
632.80	Wavelength (nm):
±0.5	Wavelength Tolerance (nm):
±0.002	Beam Stability (nm):
Red	Color:
<100	Spectral Line Width (KHz):

Electrical	
20	Output Power (mW):
1.00	Power Stability (%):
Max: 5	Power Consumption (W):
±20	Output Power Tolerance (%):
10 Hz - 100 MHz 0.2% RMS	Noise Level:
Max: 2 @ 3.3 V	Input Current (A):

Hardware & Interface Connectivity	
10-pin Connectors (cable provided upon request)	Electrical Leads/ Pin Connections:
USB	Computer Interface:
Fiber-Coupled	Output Type:
FC/APC	Connector:

Environmental & Durability Factors	
+15 to +40	Operating Temperature (°C):
5 - 95% (non-condensing)	Operating Humidity:

Regulatory Compliance	
View	Certificate of Conformance:

Product Details

- Single Longitudinal Mode (SLM) Performance
- ±0.002nm Wavelength Stability
- Very Low Power Consumption

632.8nm Frequency Stabilized Laser Diodes are ideal for typical HeNe laser applications including flow cytometry, interferometry, confocal microscopy, fluorescence excitation, and Raman spectroscopy. Whereas a comparable HeNe laser would be larger, more expensive, and consume more power, the 632.8nm Frequency Stabilized Laser Diodes feature more compact designs, ±0.002nm wavelength stability, and either greater than 60mW power (free-space model) or greater than 20mW power (fiber coupled model). Additionally, these lasers utilize Variable Bragg Gratings (VBG) to lock the 632.8nm wavelength to a 10MHz linewidth.