

## 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](#)

⊖ 1 ⊕ **A\$12,800<sup>00</sup>**

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### Product Downloads



### 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	<b>Dimensions (mm):</b>
135.00	<b>Weight (g):</b>
1	<b>Length of Fiber (m):</b>
<50 (8 Hours)	<b>Pointing Stability (μrad):</b>

## Optical Properties

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

## Electrical

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

## Hardware & Interface Connectivity

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

## Environmental & Durability Factors

+15 to +40	<b>Operating Temperature (°C):</b>
5 - 95% (non-condensing)	<b>Operating Humidity:</b>

## Regulatory Compliance

<a href="#">View</a>	<b>Certificate of Conformance:</b>
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## 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.