

## 632.8nm, 1mW Fiber-Coupled Frequency Stabilized Laser Diode



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

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⊖ 1 ⊕ €8.000<sup>00</sup>

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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

1 **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.