

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



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

Stock **#73-776** [CONTACT US](#)

⊖ 1 ⊕ £6,800⁰⁰

ADD TO CART

| Volume Pricing | |
|----------------|-------------------------------|
| Qty 1+ | £6,800.00 each |
| Need More? | Request Quote |

ⓘ Prices shown are exclusive of VAT/local taxes

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 **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.