

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** **2 In Stock**

⊖ 1 ⊕ £6,400⁰⁰

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Volume Pricing	
Qty 1+	£6,400.00 each
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ⓘ Prices shown are exclusive of VAT/local taxes

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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.