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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 + **€8.000**,00

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Qty 1+	**€8.000,00** each
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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

Dimensions (mm):
71.0 L x 63.5 W x 19.8 H

Weight (g):
135.00

Length of Fiber (m):
1

Pointing Stability (µrad):
<50 (8 Hours)

Optical Properties

Numerical Aperture NA:
0.13

Fiber Diameter (µm):
4.3 MFD

Wavelength (nm):
632.80

Wavelength Tolerance (nm):
±0.5

Beam Stability (nm):
±0.002

Color:
Red

Spectral Line Width (KHz):
<100

Electrical

Output Power (mW):
20

Power Stability (%):
1.00

Power Consumption (W):
Max: 5

Output Power Tolerance (%):
±20

Noise Level:
10 Hz - 100 MHz: 0.2% RMS

Input Current (A):
Max: 2 @ 3.3 V

Hardware & Interface Connectivity

Electrical Leads/ Pin Connections:
10-pin Connectors (cable provided upon request)

Computer Interface:
USB

Output Type:
Fiber-Coupled

Connector:
FC/APC

Environmental & Durability Factors

Operating Temperature (°C):
+15 to +40

Operating Humidity:
5 - 95% (non-condensing)

Regulatory Compliance

Certificate of Conformance:
View

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.

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