

# 632.8nm, 20mW Fiber-Coupled Frequency Stabilized Laser Diode

Stock #33-046 1 In Stock



1

MRP ₹8,49,600

Price inclusive of all taxes

**ADD TO CART**

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

Volume Pricing	
Qty 1+	₹8,49,600 each
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Product Downloads

- Spec Sheets:pdf
- EO Spec Sheet [Download All](#)

## General

<b>Warm-Up Time (minutes):</b>	2.00	<b>Fiber Cable Type:</b>	Single Mode w/3mm Dia Stainless Steel Shielding
<b>Type of Laser:</b>	Diode	<b>Laser Class - CDRH:</b>	IIIb

## Physical & Mechanical Properties

<b>Dimensions (mm):</b>	71.0 L x 63.5 W x 19.8 H	<b>Weight (g):</b>	135.00
<b>Length of Fiber (m):</b>	1	<b>Pointing Stability (µrad):</b>	<50 (8 Hours)

## Optical Properties

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

## Electrical

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

## Hardware & Interface Connectivity

<b>Electrical Leads/ Pin</b>	10-pin Connectors	<b>Computer Interface:</b>	USB
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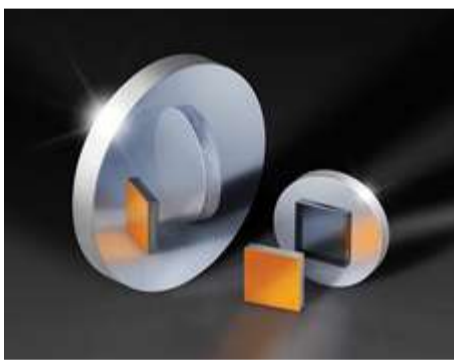
<b>Connections:</b>	(cable provided upon request)	<b>Connector:</b>	FC/APC
<b>Output Type:</b>	Fiber-Coupled		
Environmental & Durability Factors			
<b>Operating Temperature (°C):</b>	+15 to +40	<b>Operating Humidity:</b>	5 - 95% (non-condensing)
Regulatory Compliance			
<b>Certificate of Conformance:</b>	<a href="#">View</a>		
<b>Country of Origin:</b>	United States	<b>Imported By:</b>	Edmund Optics India Private Limited 267, Greystone Building, Second Floor, 6th Cross Rd, Binnamangala, Stage 1, Indiranagar, Bengaluru, Karnataka, India 560038 Phone: +91-80-6845 0000

## Product Details

- Single Longitudinal Mode (SLM) Performance
- $\pm 0.002\text{nm}$  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,  $\pm 0.002\text{nm}$  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.

## Frequently Purchased Together



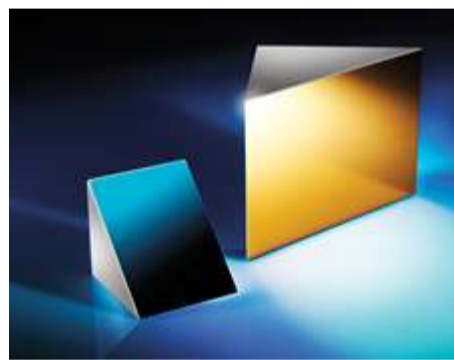
#34-354 - 10mm Dia Enhanced Aluminum,  $\lambda/20$  Mirror  
₹14,024

Qty



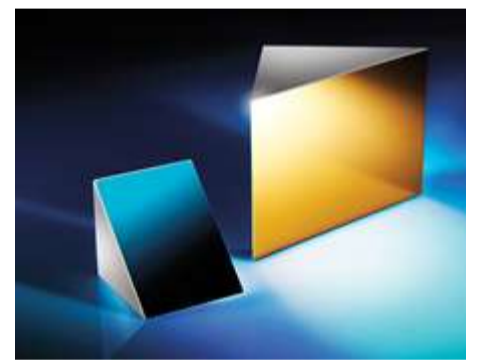
#45-074 - 10mm Dia., 2mm Thick, Uncoated  $\lambda/4$  N-BK7 Window  
₹7,062

Qty



#45-592 - 10mm Enhanced Aluminum, N-BK7 Right Angle Prism Mirrors (Hypotenuse Coated)  
₹8,980

Qty



#45-594 - 20mm Enhanced Aluminum, N-BK7 Right Angle Prism Mirrors (Hypotenuse Coated)  
₹11,805

Qty

## Resources

Media Type

TECHNICAL TOOL

Gaussian Beams Calculator

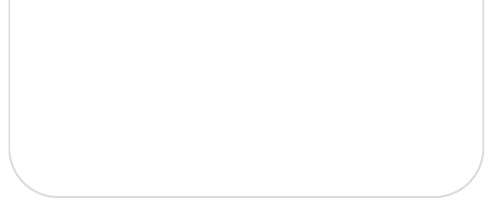
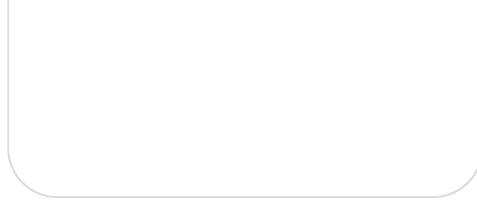
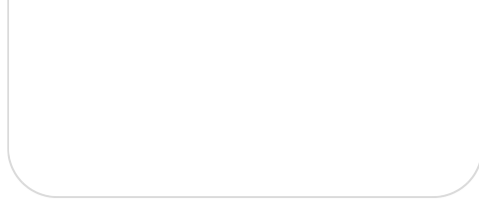
APPLICATION NOTE

Gaussian Beam Propagation

APPLICATION NOTE

Common Laser Types

- Technical Tool
- Application Note
- Video
- FAQ
- Glossary
- Published Article
- Scientific Paper



**▶ VIDEO**  
**Understanding Lasers and How They're Used Every...**

**? FAQ**  
**Can a laser beam be seen from the side?**

**? FAQ**  
**What factors are involved in how well I can see a laser...**

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