

[See all 9 Products in Family](#)

# Sapphire SF NX 488nm, 50mW CDRH Laser Head

See More by [Coherent®](#)



Photo shows #70-113

Stock **#70-112** [CONTACT US](#)

- 1 + MRP ₹9,40,932

● Price inclusive of all taxes

**ADD TO CART**

Volume Pricing	
Qty 1+	₹9,40,932 each
Need More?	<a href="#">Request Quote</a>

## Product Downloads

### General

Warm-Up Time (minutes):  
<5

Manufacturer:  
Coherent®

Type of Laser:  
Solid State

Laser Class - CDRH:  
IIIb

1397888

Model Number:

## Physical & Mechanical Properties

Pointing Stability after Warm Up (mrad/°C):  
<5

Pointing Stability (μrad):  
<30

## Optical Properties

Spatial Mode:  
TEM<sub>00</sub>

Wavelength (nm):  
488.00

Mode Quality, M<sup>2</sup>:  
<1.1

Beam Diameter Tolerance (mm):  
±0.05

Beam Diameter (mm):  
0.70

Beam Divergence (mrad):  
Full Angle: <1.2

Color:  
Blue

## Electrical

Output Power (mW):  
50

Power Stability (%):  
<2

RMS Noise:  
≤0.25% (20Hz to 20MHz)

## Hardware & Interface Connectivity

Power Supply:  
Power Supply Required and Sold Separately.  
USA: [#70-116](#)  
Europe: [#70-116](#)  
Japan: [#70-116](#)  
Korea: [#70-116](#)  
China: [#70-116](#)

Output Type:  
Free Space

## Environmental & Durability Factors

Operating Temperature (°C):  
10 to 40

## Regulatory Compliance

Certificate of Conformance:  
[View](#)

Country of Origin:  
Germany

Imported By:  
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

- Ultra-Narrow <1.5 MHz Linewidth
- Output Powers up to 200mW
- 488 and 532nm Wavelength Options

Coherent® Single Frequency Sapphire™ NX Laser Systems utilize Coherent®'s unique Optically Pumped Semiconductor Laser (OPSL) technology to provide a series of CW, single frequency, compact lasers. Available in 488 and 532nm wavelength options, these lasers provide a high-quality diffraction limited output beam and the single frequency design allows for extremely low noise. Flexible remote-control options for USB, RS-232, and analog connection all provide control options via the relevant ports on the CDRH Certified laser controller (sold separately). Coherent® Single Frequency Sapphire™ NX Laser Systems are ideal for applications that require an ultra-narrow linewidth such as Raman spectroscopy, interferometry, holography, metrology, and inspection. These lasers require [#70-116](#) Sapphire SF NX CDRH Certified Controller for power and control, sold separately.