

# Sapphire SF NX 532nm, 75mW CDRH Laser Head

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Photo shows #70-113

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- 1 + €8.700<sup>00</sup>

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## Product Downloads

### General

<5	Warm-Up Time (minutes):
Coherent®	Manufacturer:
Solid State	Type of Laser:
IIIb	Laser Class - CDRH:

1397901 **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):**

532.00

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

<1.1

**Beam Diameter Tolerance (mm):**

±0.05

**Beam Diameter (mm):**

0.70

**Beam Divergence (mrad):**

Full Angle: <1.3

**Color:**

Green

## Electrical

**Output Power (mW):**

75

**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](#)

## 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.