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

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Photo shows #70-113

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A\$14,176<sup>00</sup>

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**General**

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

## 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](#)

## 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.