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

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Photo shows #70-113

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-

1

+

€8.860<sup>00</sup>

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

|                                                                                                                                                                                                                                      |                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| 1397888                                                                                                                                                                                                                              | Model Number:                              |
| Physical & Mechanical Properties                                                                                                                                                                                                     |                                            |
| <5                                                                                                                                                                                                                                   | Pointing Stability after Warm Up (mrad°C): |
| <30                                                                                                                                                                                                                                  | Pointing Stability (μrad):                 |
| Optical Properties                                                                                                                                                                                                                   |                                            |
| TEM <sub>00</sub>                                                                                                                                                                                                                    | Spatial Mode:                              |
| 488.00                                                                                                                                                                                                                               | Wavelength (nm):                           |
| <1.1                                                                                                                                                                                                                                 | Mode Quality, M <sup>2</sup> :             |
| ±0.05                                                                                                                                                                                                                                | Beam Diameter Tolerance (mm):              |
| 0.70                                                                                                                                                                                                                                 | Beam Diameter (mm):                        |
| Full Angle: <1.2                                                                                                                                                                                                                     | Beam Divergence (mrad):                    |
| Blue                                                                                                                                                                                                                                 | Color:                                     |
| Electrical                                                                                                                                                                                                                           |                                            |
| 50                                                                                                                                                                                                                                   | Output Power (mW):                         |
| <2                                                                                                                                                                                                                                   | Power Stability (%):                       |
| ≤0.25% (20Hz to 20MHz)                                                                                                                                                                                                               | RMS Noise:                                 |
| Hardware & Interface Connectivity                                                                                                                                                                                                    |                                            |
| Power Supply:<br>Power Supply Required and Sold Separately.<br>USA: <a href="#">#70-116</a><br>Europe: <a href="#">#70-116</a><br>Japan: <a href="#">#70-116</a><br>Korea: <a href="#">#70-116</a><br>China: <a href="#">#70-116</a> |                                            |
| Free Space                                                                                                                                                                                                                           | Output Type:                               |
| Environmental & Durability Factors                                                                                                                                                                                                   |                                            |
| 10 to 40                                                                                                                                                                                                                             | Operating Temperature (°C):                |
| Regulatory Compliance                                                                                                                                                                                                                |                                            |
| <a href="#">View</a>                                                                                                                                                                                                                 | Certificate of Conformance:                |

## 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.