

# Sapphire 532nm, 500mW LPX CDRH Laser Head

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⊖ 1 ⊕ €10.490<sup>00</sup>

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## Product Downloads

### General

Warm-Up Time (minutes):  
<5

Manufacturer:  
Coherent®

Type of Laser:  
Solid State

Laser Class - CDRH:  
IIIb

1416018

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):  
500

Power Stability (%):  
<2

RMS Noise:  
≤0.25% (20Hz to 20MHz)

## Hardware & Interface Connectivity

Power Supply:  
Power Supply Required and Sold Separately.  
USA: [#70-123](#)  
Europe: [#70-123](#)  
Japan: [#70-123](#)  
Korea: [#70-123](#)  
China: [#70-123](#)

Output Type:  
Free Space

## Environmental & Durability Factors

Operating Temperature (°C):  
10 to 40

## Regulatory Compliance

Certificate of Conformance:  
[View](#)

## Product Details

- Output Powers up to 500mW
- 300mW and 500mW Output Powers
- 488, 532, and 561nm Wavelength Options

Coherent® Sapphire™ LPX Laser Systems utilize Coherent®'s unique OPSL (Optically Pumped Semiconductor Laser) technology to provide a series of CW, higher power, compact lasers. Available with 488, 532, and 561nm wavelength options, these lasers provide a high-quality diffraction limited output beam and are assembled with Coherent®'s excellent pointing stability of <30 μrad. Flexible remote-control options for USB, RS-232, and analog connection all provide control options via the relevant ports on the CDRH laser controller. Coherent® Sapphire™ LPX Laser Systems are ideal for applications that require an ultra-narrow linewidth such as Raman spectroscopy, interferometry, holography, metrology, and inspection. These lasers require [#70-123](#) Sapphire LPX CDRH Controller for power and control, sold separately.