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# Coherent® OBIS™ LX SF 1448283 | 633nm LX SF 50mW Single Frequency Laser

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Stock #18-723 **3 In Stock**

⊖ 1 ⊕ **\$5,985<sup>00</sup>**

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## Product Downloads



## General

<5	<b>Warm-Up Time (minutes):</b>
Coherent®	<b>Manufacturer:</b>
Diode	<b>Type of Laser:</b>
IIIb	<b>Laser Class - CDRH:</b>
1448283	<b>Model Number:</b>

## Physical & Mechanical Properties

Pointing Stability ( $\mu\text{rad}/^\circ\text{C}$ ):

<5

Pointing Stability ( $\mu\text{rad}$ ):

<30

## Optical Properties

Polarization:

100:1 (minimum)

Spatial Mode:

$\text{TEM}_{00}$

Wavelength (nm):

633.00 +0.3/-0.7

Mode Quality,  $M^2$ :

$\leq 1.3$

Beam Diameter Tolerance (mm):

$\pm 0.1$

Beam Diameter (mm):

0.5

Spectral Line Width (MHz):

150

Beam Divergence (mrad):

Full-Angle: <2.5

Color:

Red

Spectral Line Width (pm):

0.3 (maximum)

## Electrical

Output Power (mW):

50

Power Stability (%):

<1

RMS Noise:

$\leq 0.05\%$  (20Hz to 20MHz)

Peak-to-Peak Noise:

<0.5% (20Hz to 20kHz)

## Hardware & Interface Connectivity

Power Supply:

Power Supply Required and Sold Separately.

USA: [#87-473](#)

Europe: [#87-473](#)

Japan: [#87-473](#)

Korea: [#87-473](#)

China: [#87-473](#)

Output Type:

Free Space

## Environmental & Durability Factors

Operating Temperature ( $^\circ\text{C}$ ):

+10 to +50

## Regulatory Compliance

RoHS 2015:

[Exempt](#)

Reach 224:

[Contains SVHC\(s\)](#)

Certificate of Conformance:

[View](#)

## Product Details

- Single Frequency, Collimated,  $\text{TEM}_{00}$  Output Beam
- Excellent Signal-to-Noise Ratio
- Compatible With All OBIS LX/LS Power Supplies, Software, and Accessories

Coherent® Single Frequency OBIS™ LX Laser Systems incorporate Coherent's SureLock™ volume holographic grating (VHG) stabilized laser diodes to deliver consistent, single frequency performance in the same form factor as all other [OBIS LX/LS platforms](#). Available in 405, 633, and 660nm, these laser systems excel in application spaces requiring very low RMS signal-to-noise of less than 0.05%. An excellent alternative to stabilized HeNe lasers, each laser is stabilized using Coherent's PowerLocker® volume holographic grating ensuring precise and stable center wavelengths, low temperature dependence, and consistent optical performance. Coherent® Single Frequency OBIS™ LX Laser Systems are ideal for applications such as confocal microscopy, DNA sequencing, flow cytometry, and interferometry and are compatible with all other OBIS LX/LS power supplies, accessories, and software.

### OBIS Laser System Startup Guide

This downloadable PDF provides guidance on interfacing with OBIS controllers and power supplies, mounting and connecting the heatsink, and starting modulation.

[Download Startup Guide](#)

