

# Coherent® OBIS™ LX SF 1448284 | 405nm LX SF 40mW Single Frequency Laser

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## Product Downloads



## General

Warm-Up Time (minutes):  
<5

Manufacturer:  
Coherent®

Type of Laser:  
Diode

Laser Class - CDRH:  
IIIb

1448284 **Model Number:**

## Physical & Mechanical Properties

<5 **Pointing Stability ( $\mu\text{rad}/^\circ\text{C}$ ):**

<30 **Pointing Stability ( $\mu\text{rad}$ ):**

## Optical Properties

100:1 (minimum) **Polarization:**

$\text{TEM}_{00}$  **Spatial Mode:**

405.00  $\pm$ 1 **Wavelength (nm):**

$\leq$ 1.5 **Mode Quality,  $M^2$ :**

$\pm$ 0.1 **Beam Diameter Tolerance (mm):**

0.4 **Beam Diameter (mm):**

160 **Spectral Line Width (MHz):**

Full-Angle: <2 **Beam Divergence (mrad):**

Violet **Color:**

0.3 (maximum) **Spectral Line Width (pm):**

## Electrical

40 **Output Power (mW):**

<1 **Power Stability (%):**

$\leq$ 0.05% (20Hz to 20MHz) **RMS Noise:**

<0.5% (20Hz to 20kHz) **Peak-to-Peak Noise:**

## 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](#)

Free Space **Output Type:**

## Environmental & Durability Factors

+10 to +50 **Operating Temperature ( $^\circ\text{C}$ ):**

## Regulatory Compliance

[Exempt](#) **RoHS 2015:**

[Contains SVHC\(s\)](#) **Reach 224:**

[View](#) **Certificate of Conformance:**

## 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.

