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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 ⊕ €4.275⁰⁰

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General

Warm-Up Time (minutes):
<5

Manufacturer:
Coherent®

Type of Laser:
Diode

Laser Class - CDRH:
IIIb

1448283 **Model Number:**

Physical & Mechanical Properties

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

<30 **Pointing Stability (μrad):**

Optical Properties

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

TEM_{00} **Spatial Mode:**

633.00 +0.3/-0.7 **Wavelength (nm):**

≤ 1.3 **Mode Quality, M^2 :**

± 0.1 **Beam Diameter Tolerance (mm):**

0.5 **Beam Diameter (mm):**

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

Full-Angle: <2.5 **Beam Divergence (mrad):**

Red **Color:**

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

Electrical

50 **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, 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](#)
