

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

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

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1

+

S\$5,985⁰⁰

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Qty 1+	S\$5,985.00 each
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General

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

Physical & Mechanical Properties

<5	Pointing Stability (μrad/°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 (%):
≤0.05% (20Hz to 20MHz)	RMS Noise:
<0.5% (20Hz to 20kHz)	Peak-to-Peak Noise:

Hardware & Interface Connectivity

Power Supply Required and Sold Separately. USA: #87-473 Europe: #87-473 Japan: #87-473 Korea: #87-473 China: #87-473	Power Supply:
Free Space	Output Type:

Environmental & Durability Factors

+10 to +50	Operating Temperature (°C):
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Regulatory Compliance

Exempt	RoHS 2015:
Contains SVHC(s)	Reach 224:
View	Certificate of Conformance:

Product Details

- Single Frequency, Collimated, TEM₀₀ 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

