

[See all 14 Products in Family](#)

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

See More by [Coherent®](#)



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

-

1

+

₹4,80,024

Price inclusive of all taxes

ADD TO CART

Volume Pricing	
Qty 1+	₹4,80,024 each
Need More?	Request Quote

Product Downloads



General

<5	Warm-Up Time (minutes):
Coherent®	Manufacturer:
Diode	Type of Laser:
IIIb	Laser Class - CDRH:
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):
Regulatory Compliance	
Exempt	RoHS 2015:
Contains SVHC(s)	Reach 224:
View	Certificate of Conformance:
Singapore	Country of Origin:
Edmund Optics India Private Limited 267, Greystone Building, Second Floor, 6th Cross Rd, Binnamangala, Stage 1, Indiranagar, Bengaluru, Karnataka, India 560038 Phone: +91- 80-6845 0000	Imported By:

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, DNAsequencing, flow cytometry, and interferometry and are compatible with all other OBIS LXLS 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](#)

;