

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

+

£3,420⁰⁰

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SPECIFICATIONS

General

<5

Warm-Up Time (minutes):

Coherent®

Manufacturer:

Diode	Type of Laser:
IIIb	Laser Class - CDRH:
1448283	Model Number:
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:

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.
