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# Coherent® OBIS™ LX SF 2278596 | 405nm LX SF 20mW, Fiber-Pigtailed, Single Frequency Laser

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Coherent® OBIS™ Fiber-Pigtailed, Single Frequency Laser

Stock #26-481 **1 In Stock**

MRP ₹9,54,738

● Price inclusive of all taxes

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## Product Downloads



## General

**Warm-Up Time (minutes):**  
<5

**Fiber Cable Type:**  
3mm Mono-Coil, FC/APC 8° angled

**Type of Laser:**  
Diode

**Laser Class - CDRH:**

IIIb

Model Number:

2278596

## Physical & Mechanical Properties

Pointing Stability after Warm Up (mrad/°C):

<5

Core Diameter (μm):

3.5

Pointing Stability (μrad):

<30

## Optical Properties

Polarization:

100:1 (minimum)

Spatial Mode:

TEM<sub>00</sub>

Wavelength (nm):

405.00

Mode Quality, M<sup>2</sup>:

≤1.1

Spectral Line Width (MHz):

160

Color:

Violet

Spectral Line Width (pm):

0.4

Fiber Numerical Aperture NA (1/e<sup>2</sup>):

0.05

## Electrical

Output Power (mW):

20

Power Stability (%):

<1

RMS Noise:

≤0.05

Peak-to-Peak Noise:

<0.5%

## 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](#)

Output Type:

Fiber Pigtailed

## Environmental & Durability Factors

Operating Temperature (°C):

+10 to +50

## Regulatory Compliance

Certificate of Conformance:

[View](#)

Country of Origin:

Singapore

Imported By:

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

## Product Details

- Single Frequency, Collimated, TEM<sub>00</sub> 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](#)

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