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# Coherent® OBIS™ LX SF 2278533 | 785nm LX SF 40mW, Fiber-Pigtailed, Single Frequency Laser

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Coherent® OBIS™ Fiber-Pigtailed, Single Frequency Laser

Stock **#26-478** **1 In Stock**

C\$8,092<sup>00</sup>

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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

2278533 **Model Number:**

## Physical & Mechanical Properties

**Pointing Stability after Warm Up (mrad/°C):**  
<5

**Core Diameter (µm):**  
4.5

**Pointing Stability (µrad):**  
<30

## Optical Properties

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

**Spatial Mode:**  
TEM<sub>00</sub>

**Wavelength (nm):**  
785.00

**Mode Quality, M<sup>2</sup>:**  
≤1.1

**Spectral Line Width (MHz):**  
50

**Color:**  
IR

**Spectral Line Width (pm):**  
0.7

**Fiber Numerical Aperture NA (1/e<sup>2</sup>):**  
0.12

## Electrical

**Output Power (mW):**  
40

**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](#)

## 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](#)

