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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**

⊖ 1 ⊕ €5.780<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

IIIb **Laser Class - CDRH:**

2278533 **Model Number:**

## Physical & Mechanical Properties

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

4.5 **Core Diameter (µm):**

<30 **Pointing Stability (µrad):**

## Optical Properties

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

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

785.00 **Wavelength (nm):**

≤1.1 **Mode Quality, M<sup>2</sup>:**

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

IR **Color:**

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

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

## Electrical

40 **Output Power (mW):**

<1 **Power Stability (%):**

≤0.05 **RMS Noise:**

<0.5% **Peak-to-Peak Noise:**

## 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](#)

Fiber Pigtailed **Output Type:**

## Environmental & Durability Factors

+10 to +50 **Operating Temperature (°C):**

## Regulatory Compliance

[View](#) **Certificate of Conformance:**

## 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](#)

