

# Coherent® OBIS™ FP 1193827 | 445nm LX 45mW Laser, Fiber Pigtail, FC

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Coherent® High Performance OBIS™ Fiber-Pigtailed Laser Systems



Stock #88-029 [CONTACT US](#)

⊖ 1 ⊕ €9.320<sup>00</sup>

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## Product Downloads



## General

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

**Fiber Cable Type:**  
3mm Mono-Coil

**Manufacturer:**  
Coherent®

Diode	<b>Type of Laser:</b>
IIIb	<b>Laser Class - CDRH:</b>
1193827	<b>Model Number:</b>
<b>Optical Properties</b>	
100:1	<b>Polarization:</b>
TEM <sub>00</sub>	<b>Spatial Mode:</b>
445.00 ±5	<b>Wavelength (nm):</b>
≤1.1	<b>Mode Quality, M<sup>2</sup>:</b>
Blue	<b>Color:</b>
0.05	<b>Fiber Numerical Aperture NA (1/e<sup>2</sup>):</b>

<b>Electrical</b>	
45	<b>Output Power (mW):</b>
<2	<b>Power Stability (%):</b>
Digital: 150	<b>Modulation Frequency (MHz):</b>
Analog: 500	<b>Modulation Frequency (kHz):</b>
≤0.2% (20Hz to 20MHz)	<b>RMS Noise:</b>

<b>Hardware &amp; Interface Connectivity</b>	
<b>Power Supply:</b> Power Supply Required and Sold Separately. USA: <a href="#">#87-473</a> Europe: <a href="#">#87-473</a> Japan: <a href="#">#87-473</a> Korea: <a href="#">#87-473</a> China: <a href="#">#87-473</a>	
FC/APC; 8° angled	<b>Output from Fiber:</b>
Fiber-Coupled	<b>Output Type:</b>

<b>Environmental &amp; Durability Factors</b>	
10 to 50	<b>Operating Temperature (°C):</b>

<b>Regulatory Compliance</b>	
<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>

## Product Details

A power supply is required for operation and sold separately. OBIS remote is required for CDRH certified systems. The OBIS heat sink is recommended.

- High Performance OBIS™ LX/LS Lasers with Added Fiber Optic Capability
- Permanent Fiber Attachment Extends Lifetime with Guaranteed Power
- Single-Mode Polarization-Maintaining Fiber with an FC/APC Connector Provide High-Quality and Low-Noise Laser Beam Output
- [Coherent® High Performance OBIS™ LX/LS Laser Systems](#) Also Available

Coherent® High Performance OBIS™ LX/LS Fiber-Pigtailed Laser Systems are plug-and-play lasers available in wavelengths from the ultraviolet to the near-infrared with an added fiber attachment. The fiber optic is permanently attached to the laser, providing an extended lifetime of the fiber and guaranteed power consistency. An FC/APC connector terminates the fiber to enable connections to other systems without concern for high noise interference. Coherent® High Performance OBIS™ LX/LS Fiber-Pigtailed Laser Systems produce high-quality, low-noise laser beams and also allow for hands-free operation. These fiber-pigtailed lasers are used in confocal microscopy, DNA sequencing, polymerase chain reaction (PCR) diagnostic instruments, flow cytometry, medical imaging, and instrumentation applications.

### 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](#)