

# Coherent® OBIS™ FP 1193837 | 637nm LX 100mW Laser, Fiber Pigtail, FC

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Coherent® High Performance OBIS™ Fiber-Pigtailed Laser Systems



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**General**

Warm-Up Time (minutes):  
<5

Fiber Cable Type:  
3mm Mono-Coil

Manufacturer:  
Coherent®

Type of Laser:

Diode

IIIb **Laser Class - CDRH:**

1193837 **Model Number:**

## Optical Properties

100:1 **Polarization:**

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

637.00 ±5 **Wavelength (nm):**

≤1.1 **Mode Quality, M<sup>2</sup>:**

Red **Color:**

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

## Electrical

100 **Output Power (mW):**

<2 **Power Stability (%):**

Digital: 150 **Modulation Frequency (MHz):**

Analog: 300 **Modulation Frequency (kHz):**

≤0.2% (20Hz to 20MHz) **RMS 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](#)

FC/APC; 8° angled **Output from Fiber:**

Fiber-Coupled **Output Type:**

## Environmental & Durability Factors

10 to 40 **Operating Temperature (°C):**

## Regulatory Compliance

[Compliant](#) **RoHS 2015:**

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

## 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™ LXLS 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™ LXLS Laser Systems](#) Also Available

Coherent® High Performance OBIS™ LXLS 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™ LXLS 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](#)