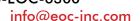


# Electro Optical Components, Inc.

5464 Skylane Boulevard, Suite D, Santa Rosa, CA 95403 Toll Free: 855-EOC-6300





# MCO Series Energy Adjustable Fiber Pigtailed Microchip Laser



The MCO series sub-nanosecond fiber pigtailed microchip laser is composed of integrated electronic control module for energy adjustment, photodetector module and laser drive board, with a 200um 0.22NA fiber. This super compact laser is plug and play, making it an ideal source for a variety of applications.

### **Applications**

Laser engraving
Laser-induced breakdown
spectroscopy (LIBS)

Laser photoluminescence

Laser marking

Laser capture microdissection

Laser-induced fluorescence (LIF)

Laser mass spectroscopy

Ultraviolet microscopy

Raman spectroscopy

**LiADR** 

Thin film scribing and processing Semiconductor inspection

Photoacoustic imaging

Laser spark plug

Laser remote sensing

### **Key Features**

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- Pulse width < 1ns</li>
- Repetition rate variable from 1-200Hz
- Energy adjustable by PC control
- Photodiode output signal with time jitter < 100ps</p>
- Sealed package, high reliability
- Plug and play, include PC control software

### **Technical Specifications**

Optical Parameters						
Wavelength (nm)	1064	532	355	266		
Repetition rate (Hz)	1-200					
Max. energy @ Fiber coupled output (μJ)	50	25	25	10		
Pulse width (ns)	≤1					
Energy stabilty (RMS)	≤3%					
Adjusting precision of output energy	≤2%					
Polarization	≥100:1					
Fiber	200μm/0.22NA					
System Parameters						
Supply power voltage	24V DC					
Modulation input	TTL 0-5V, SMB input					
Control interface	RS-232					
Peak power consumption (W)	<20					
Average power consumption (W)	<10					
Laser dimensions (W×H×L,mm)	82x79x250					
Operation temperature (°C)	10-40					
Storage temperature (°C)	-10-60					

- 1. Operation Frequency is 16~200 Hz, in Continous mode or Burst mode.
- 2. Fiber core:200 µm (0.22NA).
- 3. Power adapter is included for shipment, support 90~260VAC input.

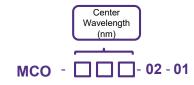
### **Order Information**

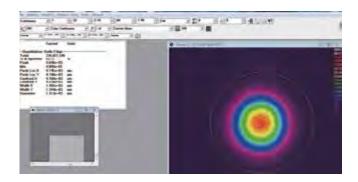
Wavelength (nm)	Part Number	Repetition rate (Hz)	Pulse energy (µJ)
1064	MCO-1064-02-01	200	50
532	MCO-532-02-01	200	25
355	MCO-355-02-01	200	20
266	MCO-266-02-01	200	10

# The Design Desig

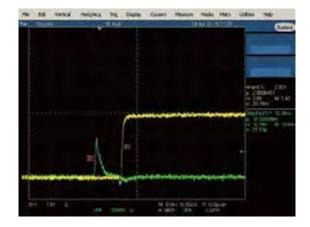
Typical Pulse Width

### **Part Numbering Schema**





Beam Profile



Photodiode output signal

## **Mechanical Drawings (in mm)**

