AdValue Photonics
Innovative & Reliable

AdValue Photonics, Inc.
sales@advaluephotonics.com
www.advaluephotonics.com
Tel: 520-790-5468; Fax: 520-790-1158

2 Micron High Power Mode-Locked Fiber Laser

AP-ML1

This world's first 2μm mode-locked fiber laser offers picosecond pulse width and high beam intensity, providing a new state-of-the-art tool to research and industry applications.

AdValue Photonics' 2μm fiber lasers provide many advantages over traditional bulk Ho and Tm solid state lasers with their compact size, high efficiency, low maintenance, and ease of operation.

Applications:

- Mid-IR generation
- Nonlinear optics studies
- Spectroscopy
- Research & development

Features:

- Short pulse width
- Broad spectral bandwidth
- High peak power
- Near diffraction limited beam quality
- Turn-key system with no maintenance

Optical Characteristics:

Parameter	Specification	
	1.95 μm Option	**2.07 μm Option**
Operating wavelength	1.95±0.05 μm	2.07±0.02 μm
Average power (nominal)	1 W	300 mW
Pulse width	<3 picoseconds	<2 picoseconds
Pulse repetition rate	20-40 MHz (non-adjustable factory set)	20-40 MHz (non-adjustable factory set)
Max. peak power	>10 kW	>5 kW
Beam quality, M^2	< 1.3	
Output polarization	Random (option: linearly polarized)	
Output beam	Collimated beam, diameter ~ 4 mm	
Output fiber	Single mode fiber, 6 mm armored cable, 0.5 m cable length (Polarization maintaining fiber for linearly polarized option)	
Fiber termination	Collimator, housing dimensions Φ35 x 97 mm	

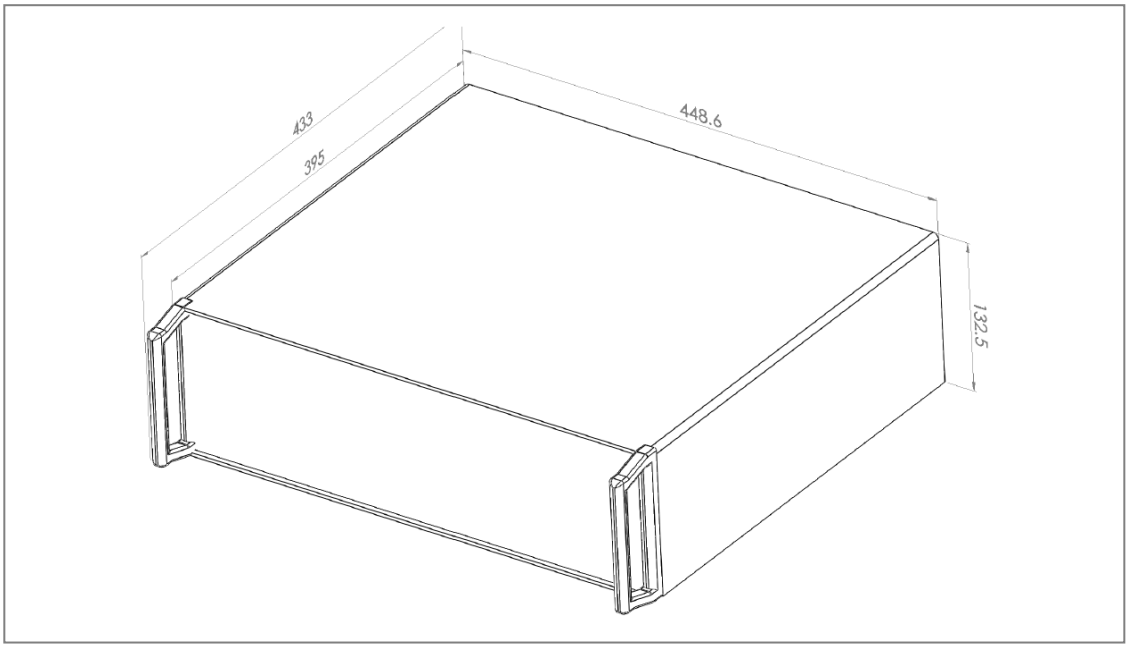
(Customization options available.)

Specifications subject to change without notice

General Characteristics:

Parameter	Specification
Operating temperature	+10 to +30 ºC
Storage temperature	-10 to +70 ºC
Cooling	Forced air
Power requirement	AC 100~240 V (50/60Hz)
Power consumption	< 40 W
Warm-up time	20 minutes
Package dimensions	448.6(W) x 433(D) x 132.5(H) mm

Mechanical Outline:



Ordering Information:

Part Number:	AP-ML1	-	xxxx	-	xx or mxxx	-	RP or LP		
			Operating Wavelength: 1950 = 1.95±0.05 µm 2070 = 2.07±0.02 µm		Output Power: 01 = 1 W m300 = 300 mW		Polarization: RP = random polarization LP = linear polarization		

(For special request, please contact AdValue Photonics at 1-520-790-5468 or sales@advaluephotonics.com.)

Specifications subject to change without notice