

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:

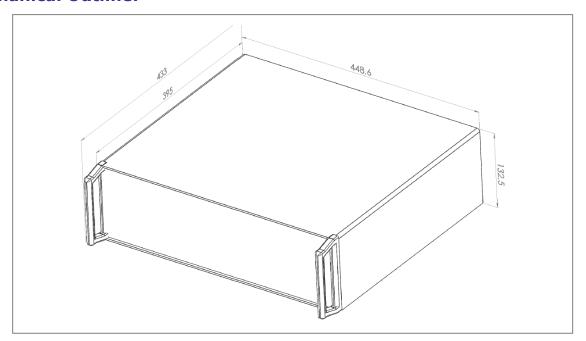
Parameter	Specification					
	1.95 µm Option	2.07 µm Option				
Operating wavelength	1.95±0.05 μm	2.07±0.02 μm				
Average power (nominal)	1 W	300 mW				
Pulse width	<3 picoseconds	<2 picoseconds				
Pulse repetition rate	20-40 MHz (non-adjustable factory set)	20-40 MHz (non-adjustable factory set)				
Max. peak power	>10 kW	>5 kW				
Beam quality, M ²	< 1.3					
Output polarization	Random (option: linearly polarized)					
Output beam	Collimated beam, diameter ~ 5 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.)

General Characteristics:

Parameter	Specification
Operating temperature	+10 to +30 °C
Storage temperature	-10 to +70 °C
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.)





2 Micron Mode-Locked Fiber Laser

AP-ML

This world's first 2µm mode-locked fiber laser offers sub-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.

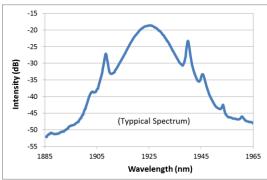
Applications:

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

Features:

- Short pulse-width
- Broad spectral bandwidth
- Diffraction limited beam quality
- Turn-key system with no maintenance





Optical Characteristics:

Parameter	Specification					
	950 fs Option	350 fs Option				
Operating wavelength	1.95±0.05 μm	1.95±0.05 μm				
Average power (nominal)	5 mW	3 mW				
Pulse width	< 950 femtoseconds	< 350 femtoseconds				
Pulse repetition rate	20-40 MHz (non-adjustable factory set)	30-50 MHz (non-adjustable factory set)				
Spectral bandwidth	> 6 nm	> 18 nm				
Beam quality, M ²	< 1.1	•				
Output polarization	Random					
Output fiber	SMF-28 single mode fiber, 3 mm jacket, 1 m length, no connector					

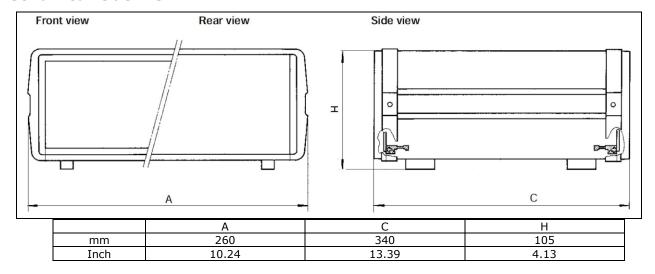
(Customization options available.)

Specifications subject to change without notice

General Characteristics:

Parameter	Specification
Operating temperature	+20 to +30 °C
Storage temperature	-10 to +70 °C
Cooling	Forced air
Power requirement	AC 100~240 V (50/60Hz)
Power consumption	< 15 W
Warm-up time	20 minutes
Package dimensions	260(W) x 340(D) x 105(H) mm

Mechanical Outline:



Ordering Information:

Part Number:	AP-ML	-	1950	•	mxxx	•	RP	xxx
			Operating Wavelength: 1950 = 1.95±0.05 μm		Output Power: m003 = 5 mW m005 = 3 mW		Polarization: RP = random polarization	Pulse Option: 950 = 950 fs Option 350 = 350 fs Option

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