

2 Micron High Power Q-Switched Fiber Laser AP-QS1

This world's first 2 μm Q-switched fiber laser offers nanosecond pulses and high beam intensity, providing a new state-of-the-art tool to research and industry applications.

AdValue Photonics' 2 μm 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:

- Customizable operating wavelength
- Nanosecond pulses
- High peak power
- Near diffraction limited beam quality
- Turn-key system with no maintenance



Optical Characteristics:

Parameter	Specification	
	180 ns Pulse Option	20 ns Pulse Option
Operation mode	Pulsed	
Operating wavelength	1.95 μm (Option: 1.92-2.0 μm)	1.95 μm (Option: 1.92-2.0 μm)
Max. average power	5 W	2 W
Pulse repetition rate	20 kHz	10 to 30 kHz variable
Pulse width	160-200 ns (power dependent)	20 to 50 ns (rep. rate dependent)
Max. pulse energy	250 μJ	200 μJ
Beam quality, M^2	< 1.3	
Output polarization	Within $\pm 5\%$	
Output polarization	Random (Option: Linearly Polarized)	
Output isolator	Included	
Output beam	Collimated beam, diameter ~ 4 mm	
Output fiber	Single mode fiber, 5 mm armored cable, 0.8 m cable length (For linearly polarized output: polarization maintaining single mode fiber)	
Fiber termination	Collimator, housing dimensions $\Phi 35 \times 97$ mm	

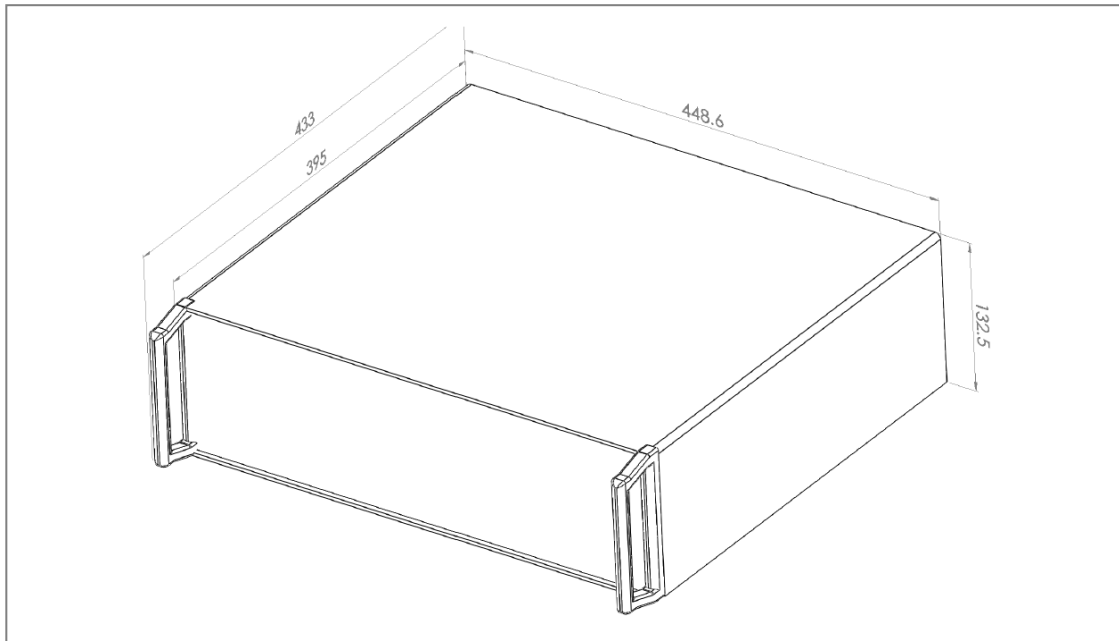
(Customization options available.)

Specifications subject to change without notice

General Characteristics:

Parameter	Specification
Operating temperature	0 to +30 °C
Storage temperature	-10 to +70 °C
Cooling	Forced air
Power requirement	AC 100~240 V (50/60Hz)
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-QS1	-	xxxx	-	xx	-	xx	xxx or xx
			Standard Wavelength: 1950 = 1950 nm Custom Wavelength: xxxx = xxxx nm		Output Power: 02 = 2 W 05 = 5 W		Polarization: RP = random polarization LP = linear polarization	Pulse Option: 180 = 180 ns Option 20 = 20 ns Option

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



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