

2 Micron Q-Switched Fiber Laser

AP-QS

This world's first 2 μ m 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 μ m 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
- Diffraction limited beam quality
- Turn-key system with no maintenance



Optical Characteristics:

Parameter	Specification	
	100 ns Pulse Option	20 ns Pulse Option
Operation mode	Pulsed	
Operating wavelength	1950 nm (Option: customized wavelength 1920 to 2000 nm)	
Wavelength accuracy	± 5 nm (Option: customized higher accuracy)	
Average power (nominal)	100 mW (not for all options)	100 mW (not for all options)
Pulse width (nominal)	100 ns	20 to 50 ns (rep. rate dependent)
Pulse repetition rate	20 kHz	10 to 30 kHz adjustable on keypad
Beam quality, M^2	< 1.1	
Output power stability	< 5%	
Output polarization	Random (Option: linearly polarized)	
Output fiber	SMF-28 single mode fiber, 3 mm jacket, 1 m length, no connector (For linearly polarized output: Panda PM1550 fiber)	

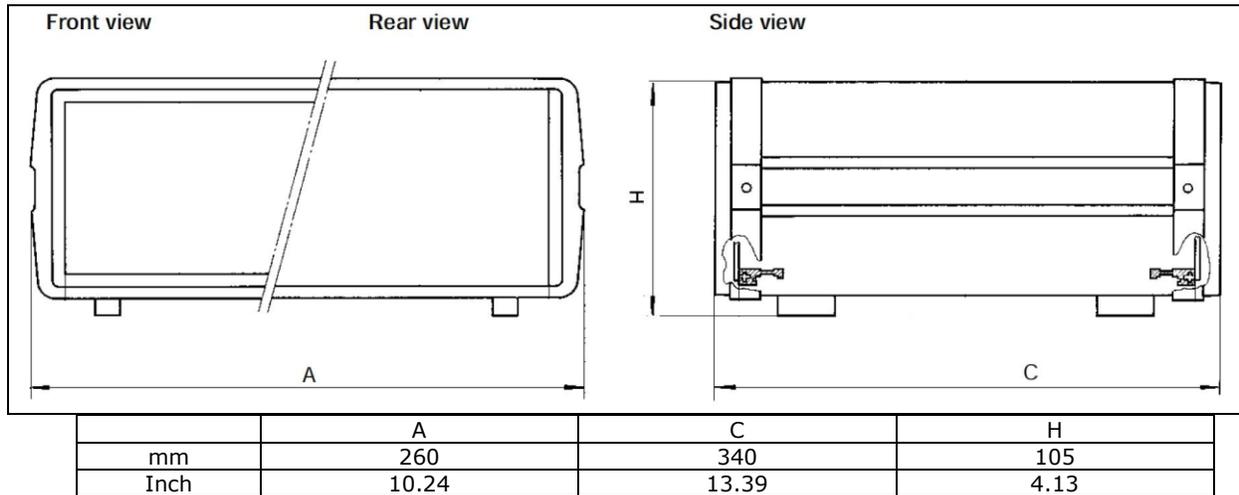
(Customization options available.)

Specifications subject to change without notice

General Characteristics:

Parameter	Specification
Operating temperature	0 to +40 °C
Storage temperature	-10 to +70 °C
Cooling	Forced air
Power requirement	AC 100~240 V (50/60Hz)
Power consumption	< 30 W
Warm-up time	20 minutes
Package dimensions	260(W) x 340(D) x 105(H) mm

Mechanical Outline:



Ordering Information:

Part Number:	AP-QS	-	xxxx	-	mxxx	-	xx		xxx or xx
			Standard Wavelength: 1950 = 1950 nm Custom Wavelength: xxxx = xxxx nm		Output Power: m100 = 100 mW		Polarization: RP = random polarization LP = linear polarization		Pulse Option: 100 = 100 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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