

2 Micron Q-Switched Fiber Laser Module

AP-QS1-MOD

Applications:

- Welding/marking/cutting/micro-machining clear plastics
- Other plastic, organic, and metal materials processing
- Laser surgery and laser aesthetics
- LIDAR

Features:

- Laser emission in the 2 μm wavelength region
- High peak power
- Nanosecond pulses
- Output modulation capability
- Near diffraction limited beam quality
- Turn-key control box available



Optical Characteristics:

Parameter	Specification
Operation mode	Pulsed
Operating wavelength	1.95 \pm 0.05 μm (option: 1.92-2.0 μm)
Average power	10 W (higher or lower power available)
Pulse repetition rate	10 to 30 kHz (not user adjustable, factory settable)
Pulse width	20 to 200 ns options
Pulse energy	500 μJ (higher or lower pulse energy available)
Beam quality, M^2	< 1.3
Output power stability	Within $\pm 5\%$
Output polarization	Random (option: linear polarization)
Output modulation*	1 kHz max. frequency
Output delivery	Optical fiber armored cable terminated with collimator or SMA connector

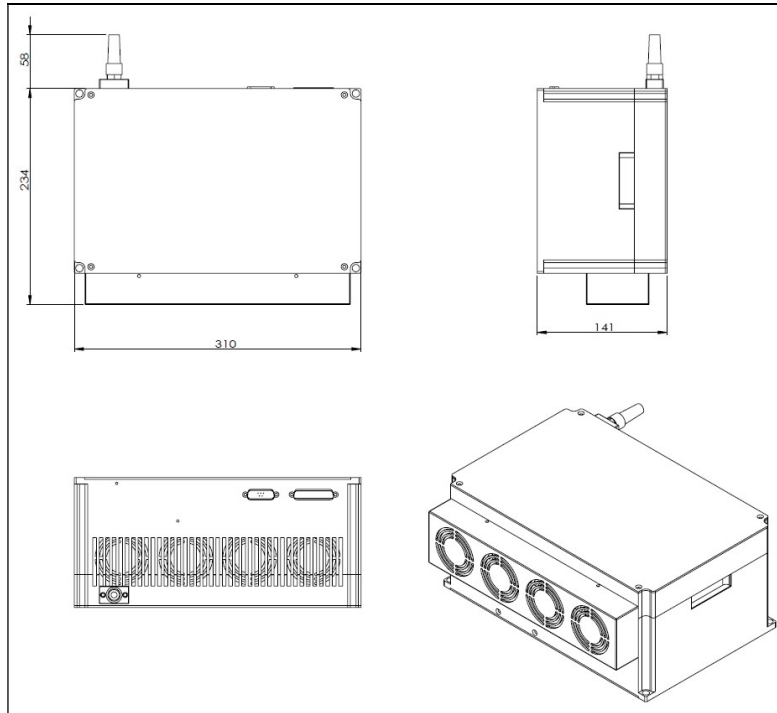
(For special requirement, please contact AdValue Photonics for options.)

Specifications subject to change without notice

General Characteristics:

Parameter	Specification
Operating temperature	10 to 35 °C
Storage temperature	-10 to +70 °C
Cooling	Forced air
Power supply requirement	24V/13.5A, 15V/3A
Warm-up time	10 minutes
Package dimensions	310(W) x 234(D) x 141(H) mm

Mechanical Outline:



Ordering Information:

Part Number:	AP-QS1-	-	xxxx	-	xx	-	xxx
	MOD						
			Standard Wavelength: 1950 = 1950 nm Custom Wavelength: xxxx = xxxx nm		Output Power: 02 = 2W 10 = 10W xx = xxW		Polarization: RP = random polarization LP = linear polarization

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