

## 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  $\mu\text{m}$  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 $\mu\text{m}$ (option: 1.92-2.0 $\mu\text{m}$ )
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 $\mu\text{J}$ (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

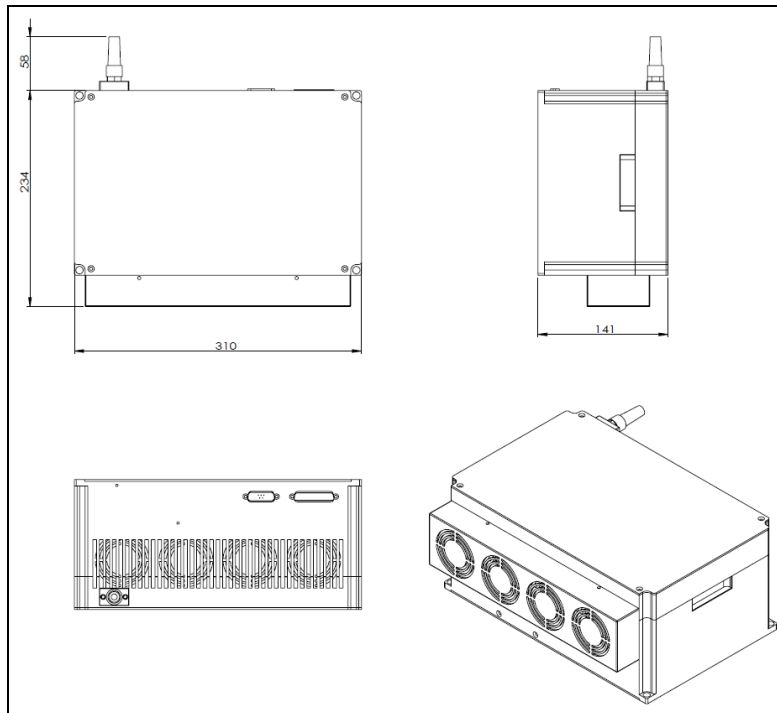
(For special requirement, please contact AdValue Photonics for options.)

*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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