

2 Micron Single-Frequency Fiber Laser AP-SF1

With their compact size, high efficiency, low maintenance, and ease of operation AdValue Photonics' 2 μ m fiber lasers provide many advantages over traditional bulk Holmium and Thulium solid state lasers.

Applications:

- LIDAR
- Gas sensing
- Frequency conversion
- Scientific research



Features:

- Customizable operating wavelength
- Single longitudinal mode
- Very narrow spectral linewidth
- Near diffraction limited beam quality
- Turn-key system with no maintenance required

Optical Characteristics:

Parameter	Specification
Operation mode	CW
Operating wavelength	1950 nm (option: 1900-2100 nm)
Wavelength accuracy	± 1 nm nominal
Output power	5 W (higher or lower power available)
Spectral linewidth	10 kHz, 50 kHz
Frequency stability	± 100 MHz per minute
Beam quality, M^2	< 1.3
Output polarization	Random (option: linearly polarized)
Fast tuning range	200 MHz, ~ 20 MHz/V with PZT (option available)
Thermal tuning range	0.3 nm (option available)
Output delivery	Optical fiber or fiber collimator

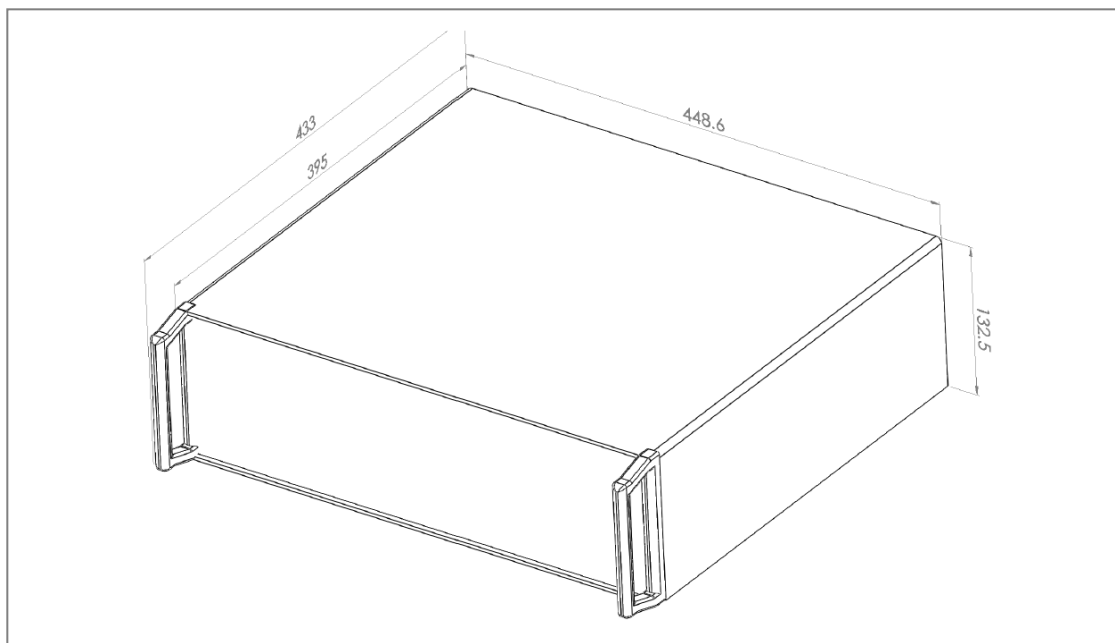
(For special requirement, please contact AdValue Photonics for options.)

Specifications subject to change without notice

General Characteristics:

Parameter	Specification
Operating temperature	20 to +35 °C
Storage temperature	-10 to +70 °C
Cooling	Forced air
Power requirement	AC 100~240 V (50/60Hz)
Warm-up time	10 minutes
Package dimensions	448.6(W) x 433(D) x 132.5(H) mm

Mechanical Outline:



Ordering Information:

Part Number:	AP-SF1	-	xxxx	-	xx	-	xx
			Standard Wavelength: 1950 = 1950 nm Custom Wavelength: xxxx = xxxx nm		Output Power: 01 = 1 W 05 = 5 W		Polarization: RP = random polarization LP = linear polarization



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