

1U Small Size 780nm Laser (DFB)

Based on fiber DFB seed laser, low noise erbium-doped fiber amplifier and high efficiency frequency doubling module, as well as integrated drive circuit, Precilasers can provide 1U small volume frequency doubling 780nm laser, which is widely used in quantum precision measurement and optical precision measurement.

Features

- Ultra-Small Size
- Narrow Linewidth
- Tunable
- Continuous Laser

Applications

- Rubidium Atom Quantum Computing
- Rubidium Atomic Gravimeter
- Precision Distance Measurement



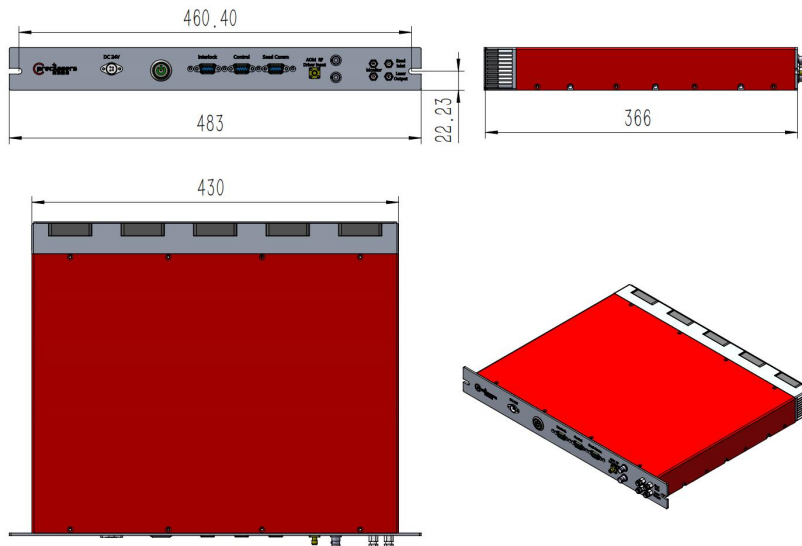
Specification		
Partnumber	FL-SF-780-X ⁽¹⁾ -1U	
Center Wavelength	780.24nm	
Output Power	> 500mW	
Operation Mode	Continuous	
Tuning Range (temperature)	> 0.5nm, Continuous without mode hop	
Output Mode	Single Mode Polarization Maintaining Fiber	
Linewidth ⁽²⁾ (100 us integration)	< 2kHz	< 5kHz
Polarization Extinction Ratio	> 20dB	
Power Stability (3 Hours RMS)	< 0.75%	
Beam Quality	$M^2 < 1.1$	
PZT Tuning Range	> 3GHz	
PZT Tuning Bandwidth	> 5kHz	
Cooling	Air Cooling	

(1) X represents power, for example, if the power is 0.5W, the model is FL-SF-780-0.5-1U

(2) Fiber delay self-heterodyne beat frequency method measurement

Other Parameters	
Temperature	15-25°C
Power Supply	24V DC, With external power adapter

❖ Product Dimensions



Product Dimensions



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⚠ Laser Hazard

Visible or invisible laser radiation, avoid eye or skin exposure to direct, reflected or filtered radiation.

CLASS 4 Laser Products

