



## Single Module Frequency Doubled 780nm Laser

Based on fixed external cavity semiconductor seed laser, low noise erbium-doped fiber amplifier and high efficiency frequency doubling module, as well as integrated drive circuit, Precilasers can provide ultra-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 <sup>(1)</sup> -C	
Center Wavelength	780.24nm	
Output Power	> 200mW	> 500mW
Monitor Port Output Power	> 5mW	
Operation Mode	Continuous	
Tuning Range (temperature)	> 15GHz, Continuous without mode hop	
Output Mode	Single Mode Polarization Maintaining Fiber	
Linewidth <sup>(2)</sup> (100 us integration)	< 6kHz	< 15kHz
Polarization Extinction Ratio	> 20dB	
Power Stability (3 Hours RMS)	< 0.75%	
Beam Quality	M <sup>2</sup> < 1.1	
Current Tuning Range	> 1GHz	
Current Tuning Bandwidth	> 1MHz	
RIN Relative Intensity Noise (10Hz-100MHz, RMS)	< 0.08%	

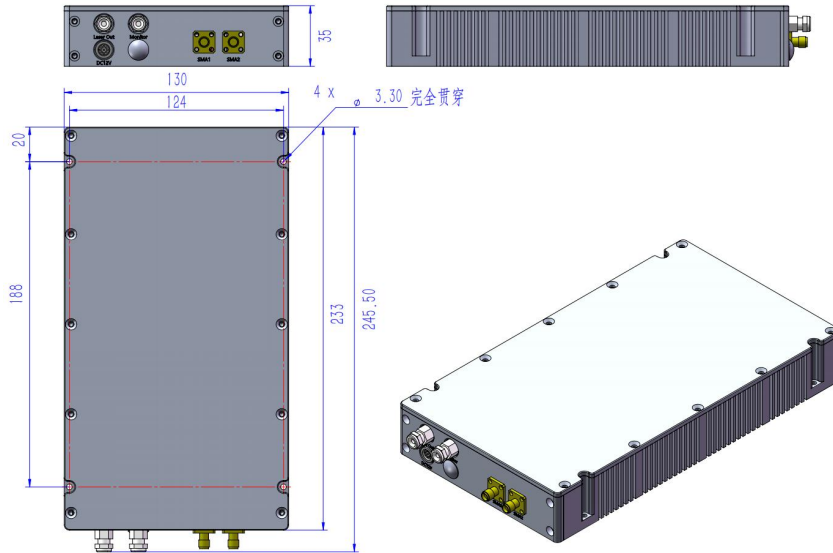
(1)X represents power, for example, if the power is 0.5W, the model is FL-SF-780-0.5-C

(2)Fiber Delay Self-Heterodyne Beat Frequency Measurement

Other Parameters	
Temperature	15-25°C
Power Consumption	< 24W
Power Supply	24V DC

## ❖ Product Dimensions

Single module laser dimensions



Shanghai Precilasers Technology Co., Ltd.  
Floor 2, Building 2, No. 1918, Xupan Road, Jiading  
District, Shanghai  
021-59160265

[info@precilasers.com](mailto:info@precilasers.com) | [www.precilasers.com](http://www.precilasers.com)



### ⚠ Laser Hazard

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

CLASS 4 Laser Products

