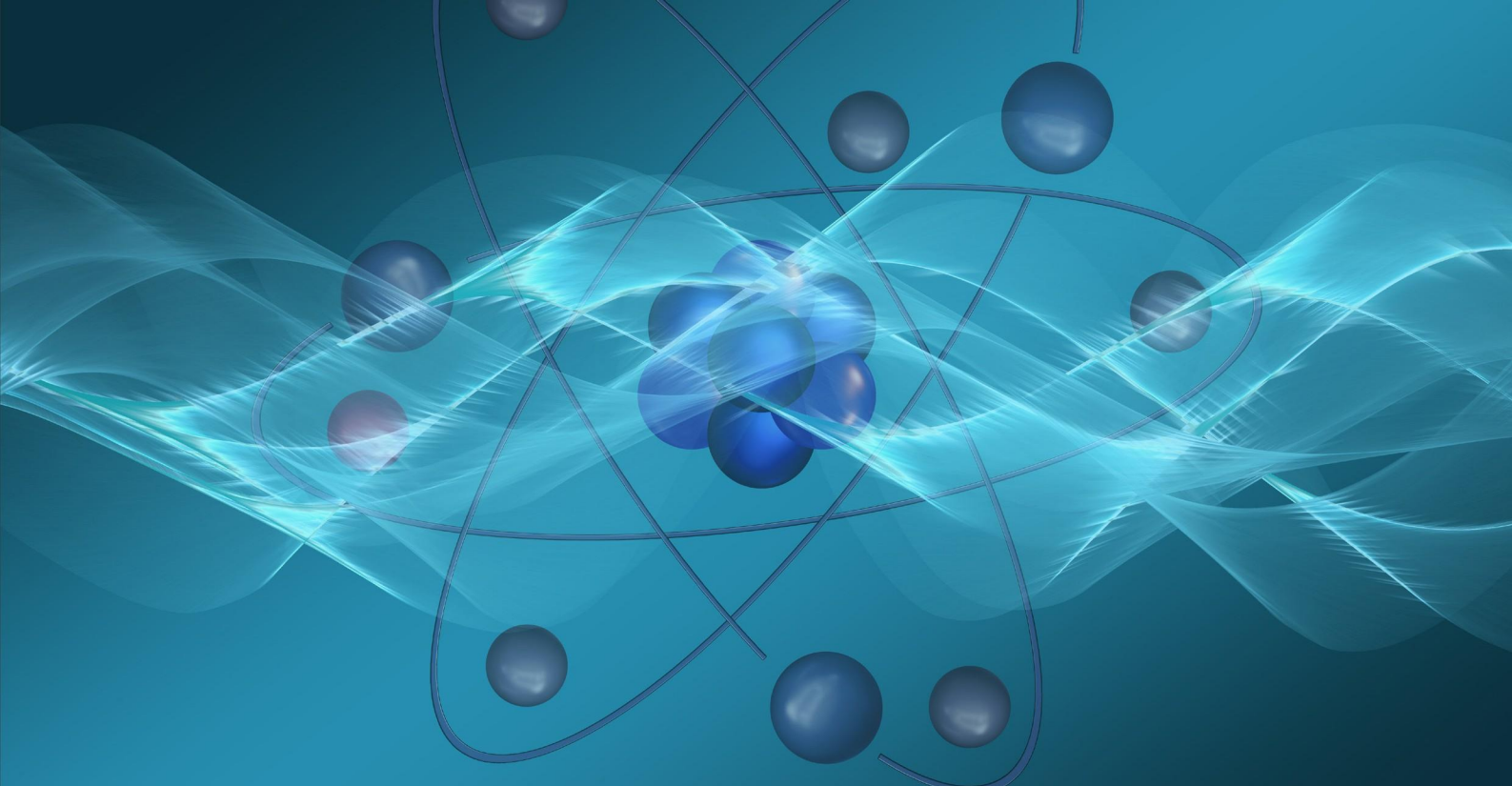




795nm Narrow Linewidth Laser (FECL, Fiber Output)

Based on fixed external cavity semiconductor seed laser, low noise erbium doped fiber amplifier and high efficiency frequency doubling module, Precilasers can provide high power 795nm laser, which is widely used in quantum precision measurement and optical precision measurement.

Features

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

Applications

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



Specification			
Partnumber	FECL-SF-795-X ⁽¹⁾ -CW		
Center Wavelength	795nm		
Output Power	0.2W	0.5W	2W
Operation Mode	Continuous		
Tuning Range (Temperature)	> 15GHz, Continuous without mode hop		
Output Mode	Single-mode polarization-maintaining fiber output ⁽²⁾		
Linewidth ⁽²⁾ (100Us Integration Time)	< 10kHz		< 20kHz
Polarization Extinction Ratio	> 20dB		
Power Stability (3 Hours RMS)	< 0.75%		
Beam Quality	$M^2 < 1.1$		
Current Tuning Range	> 1GHz		
Current Tuning Bandwidth	> 1MHz		
Cooling	Air Cooling		

(1) X represents power. For example, if the power is 2W, the model number is FL-SF-795-2-CW.

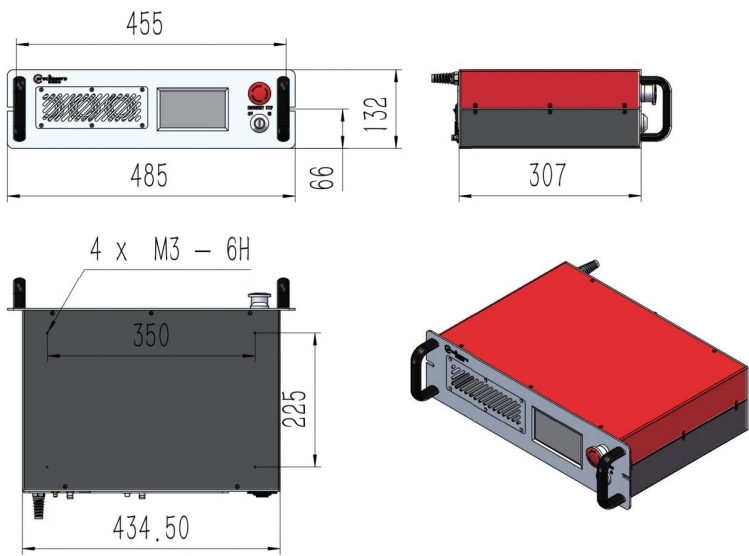
(2) The default single-mode polarization-maintaining fiber connector is FC/APC. Please pay attention to the cleanliness of the fiber end face when using it.

(3) Fiber delay self-heterodyne beat frequency measurement

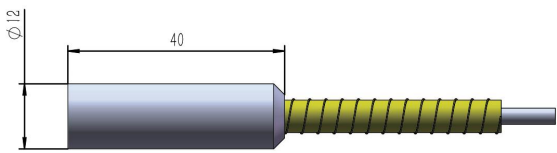
Other Parameters	
Temperature	15-30°C ⁽¹⁾
Power Supply	100-240V AC, 50/60Hz

(1) High temperature environment option: can be used in an environment of 0-40°C

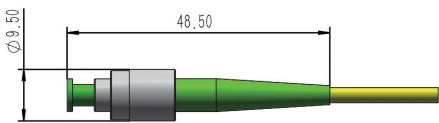
❖ Product Dimensions



Laser Controller



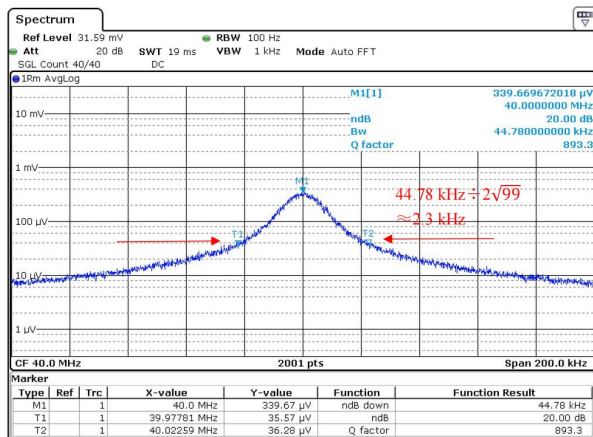
780波导输出准直头



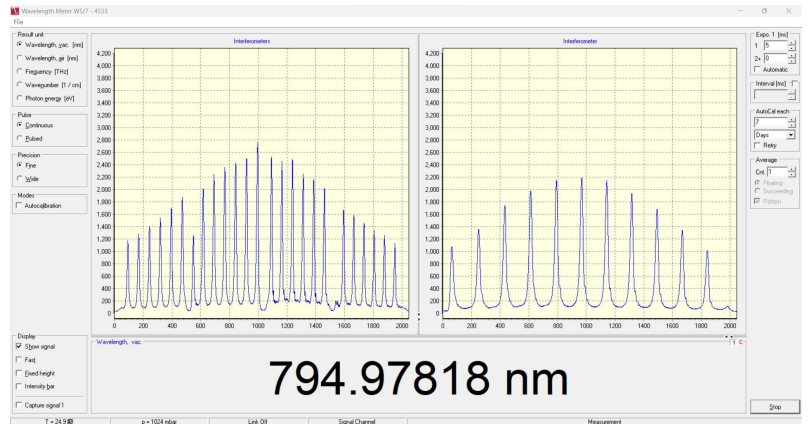
780波导输出跳线头

Single-mode polarization-maintaining fiber output, one of the two, power $\leq 2W$

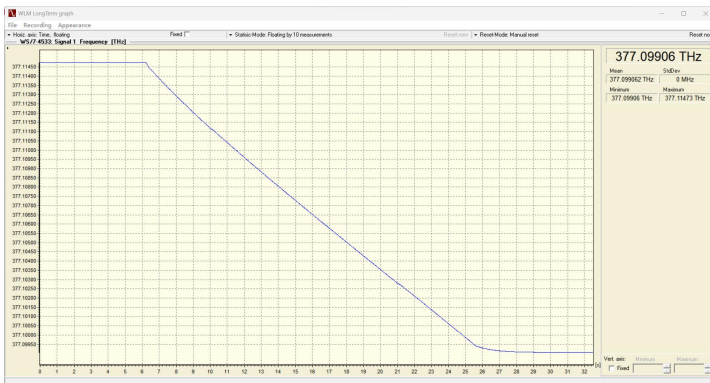
❖ Performance (typical value)



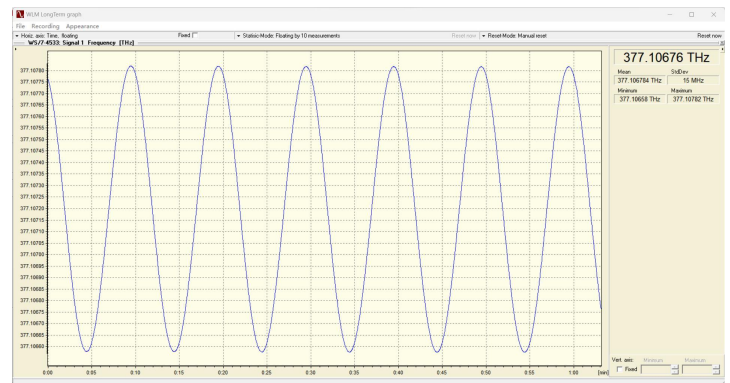
FECL 1590nm Seed Laser Linewidth, 2.3kHz



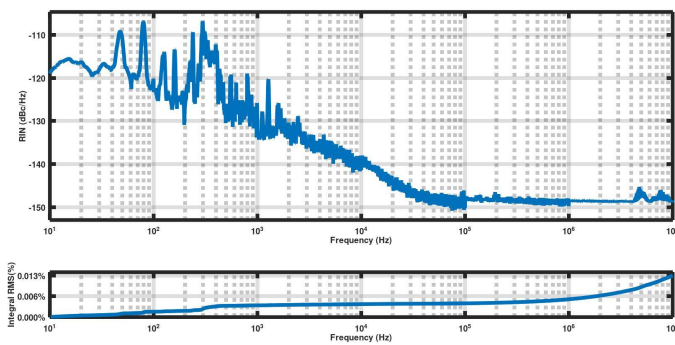
Center Wavelength: 795nm



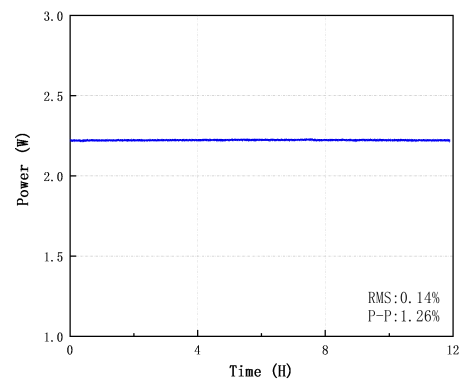
795nm tuning 15.6GHz



795nm 电流调谐: 1.2GHz@输入 $\pm 3V$



795nm Intensity Noise



795nm Power stability



Shanghai Precilasers Technology Co., Ltd.

📍 Floor 2, Building 2, No. 1918, Xupan Road, Jiading District, Shanghai

 021-59160265

www.precilasers.com info@precilasers.com



Laser Hazard

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

CLASS 4 Laser Products

