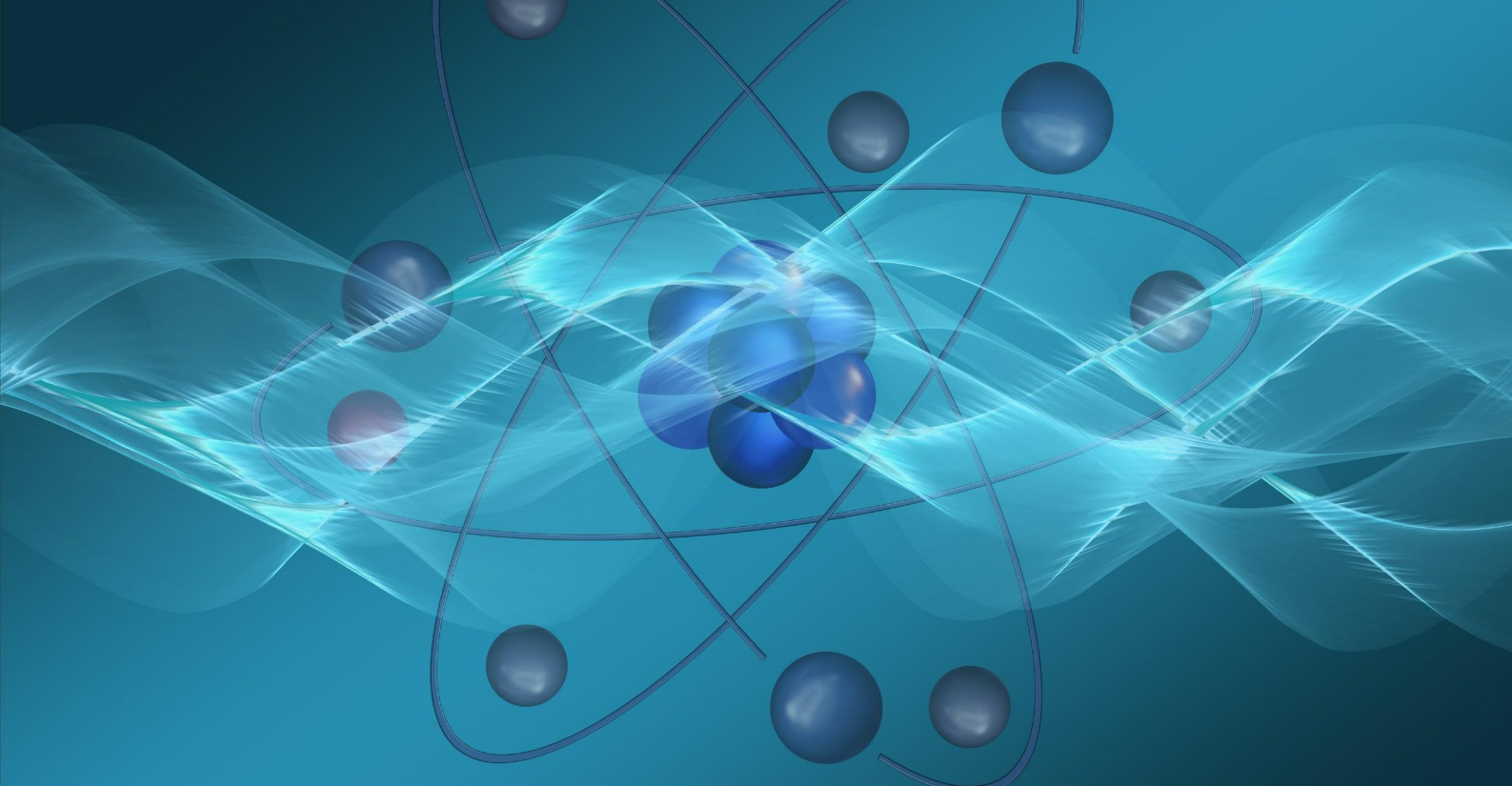




795nm Narrow Linewidth Laser (FECL, Spatial Output)

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	4W
Operation Mode	Continuous			
Tuning Range (Temperature)	> 15GHz, Continuous without mode hop			
Output Mode	Single-mode polarization-maintaining fiber output			
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			

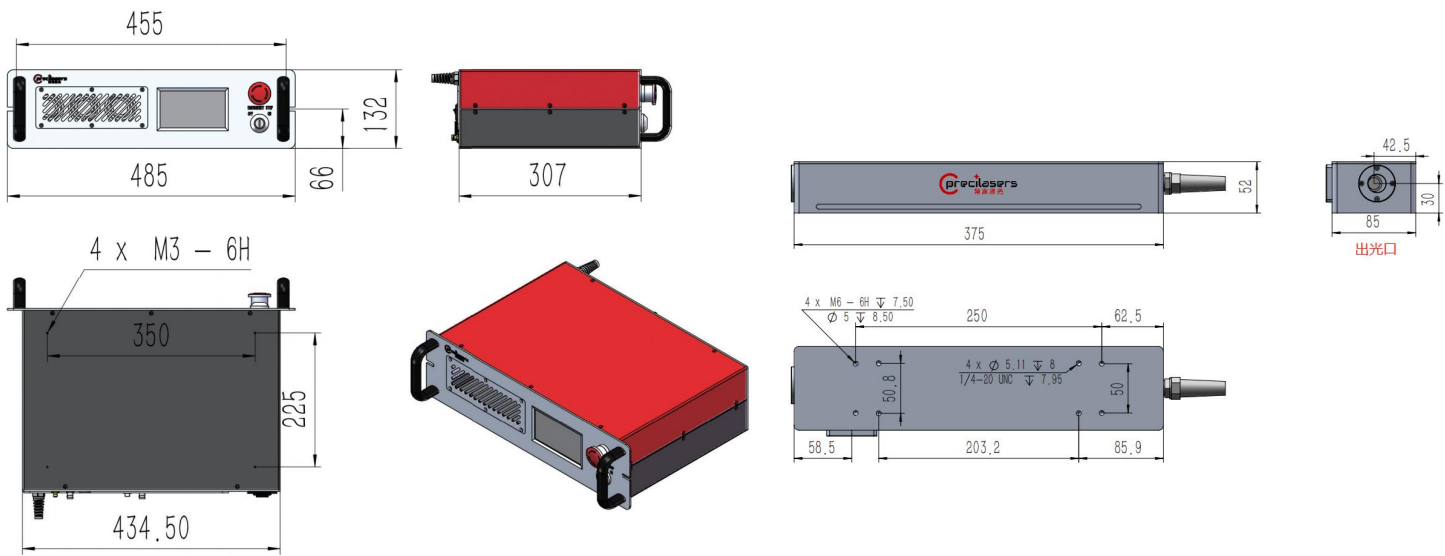
(1) X represents power. For example, if the power is 2W, the model number is FL-SF-795-2-CW.

(2) 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 0-60°C

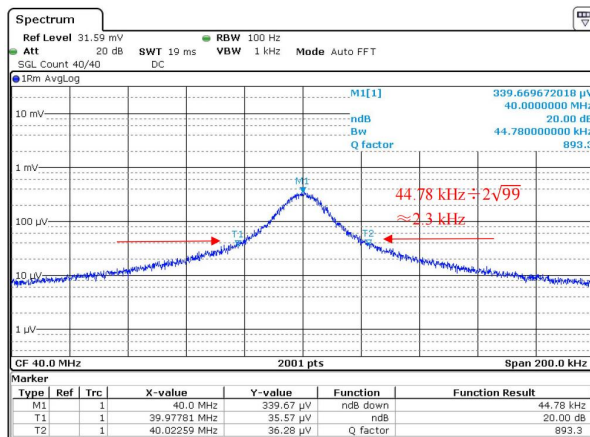
❖ Product Dimensions



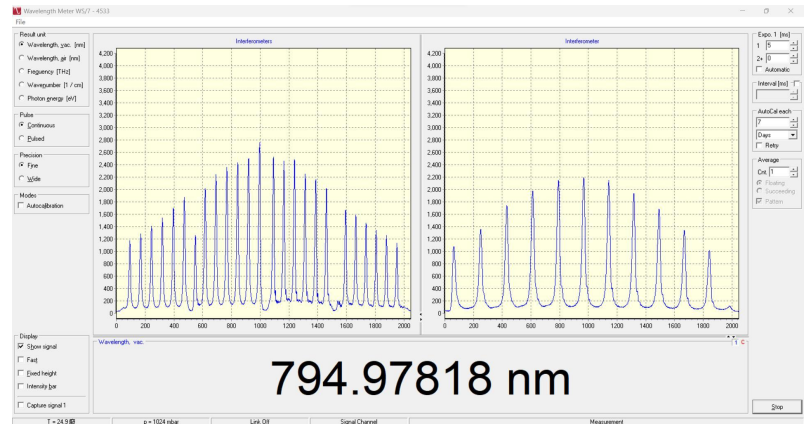
Laser Controller

Laser Head

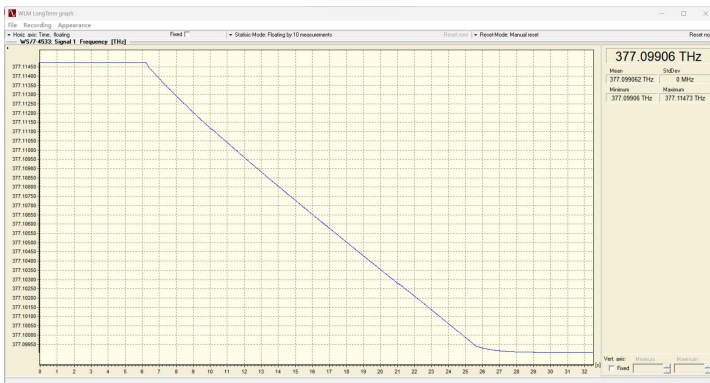
❖ Performance (typical value)



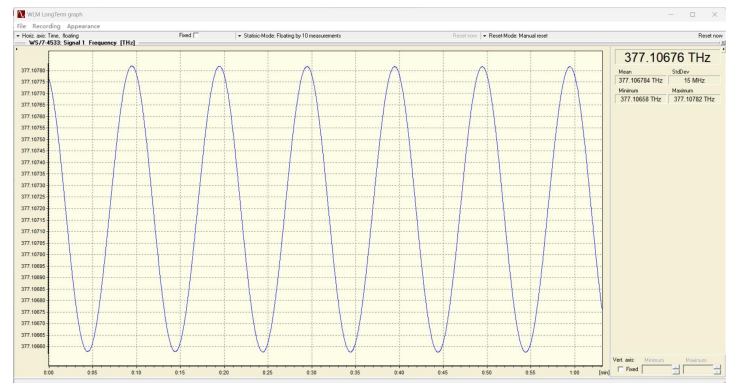
FECL 1590nm Seed Laser Linewidth, 2.3kHz



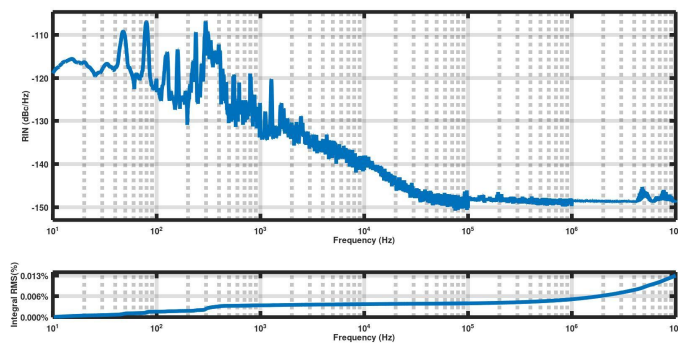
Center Wavelength: 795nm



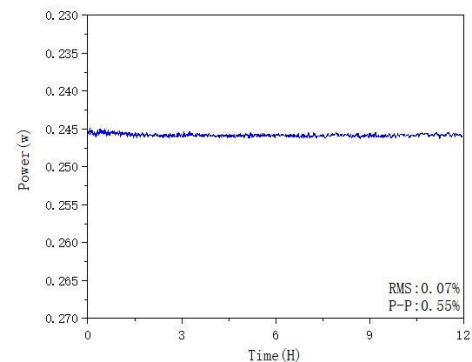
795nm Continuous non-mode hopping tuning: 15.6GHz



795nm Current tuning: 1.2GHz@enter $\pm$ 3V



795nm Intensity Noise



795nm Power Stability



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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

