

## Narrow Line width 1730-2050nm laser

PreciLasers doped Tm fiber DFB laser amplifier, with the Features of low noise, high stability, the Optional center wavelength is 1730-2050nm, can be widely used in optical precision measurement, quantum precision measurement and other fields.

### Features

- low noise
- linear polarization
- Continuous laser

### Applications

- Optical precision measurement
- Quantum precision measurement



Optical parameters				
Available range of wavelengths	1690-2050nm			
Commonly used wavelength	1690nm	1762nm	1927nm	2051nm
Output power	> 0.5W	> 5W	> 30W	> 10mW
Temperature tuning range	> 1nm			
Output mode	Single-mode offset optical fiber protection, FC / APC connector, Continuous optical output			
Line width <sup>(1)</sup> (100us integration time)	< 5kHz <sup>(2)</sup>		< 10kHz	
Polarized extinction ratio	> 20dB			
Power Stability (3-hour RMS)	< 0.75%			
Beam quality	$M^2 < 1.1$			
PZT tuning range	> 3GHz			
PZT tuning bandwidth	> 5kHz			
Cooling method	Air Cooling		Water cooling	

(1) The optical fiber delay is measured from the heterotropic beat frequency method

(2) Narrow line-width selection unit

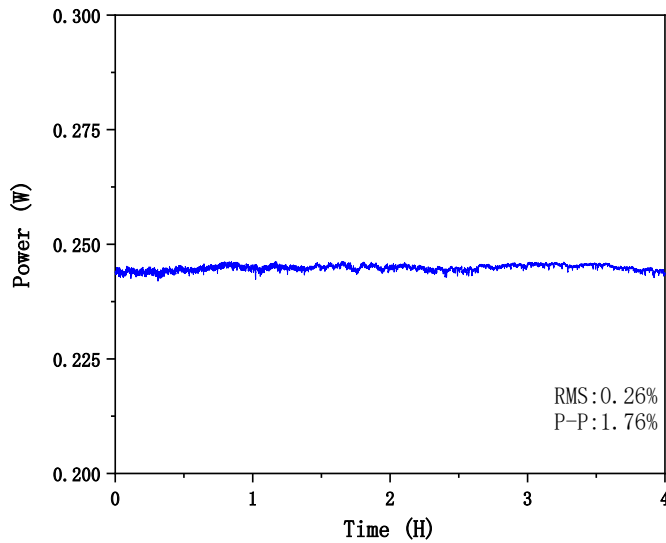
Option	
AOM option	AOM and VCO drives were added between the seed and the amplifier to achieve a 500kHz tuning bandwidth with $\pm 5$ MHz tuning range
The EOM-RF Option	The EOM was added between the seed and the amplifier to achieve the sideband modulation

Other parameters	
Working temperature	15-25°C
Supply electricity	100V-220V, AC , 50Hz

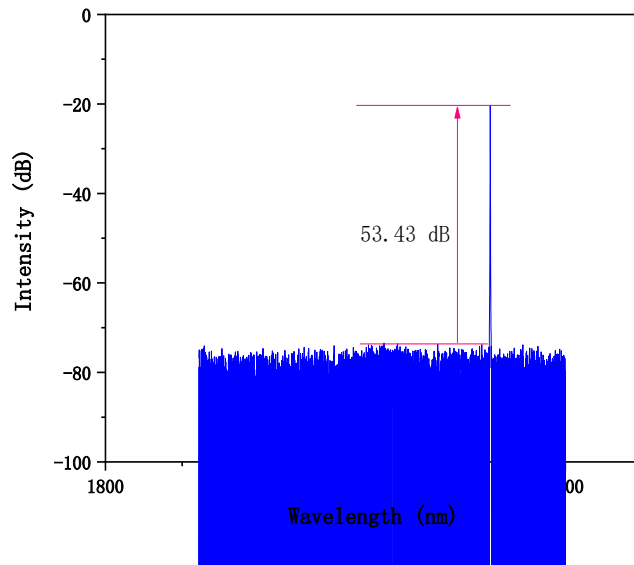
❖ Product Dimensions

Product  
Dimensions-Air-  
cooled

❖ Performance indicator test (typical value)



Power stability test: 0.26%@4h




Output spectrum: signal to noise ratio 53.43dB



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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**