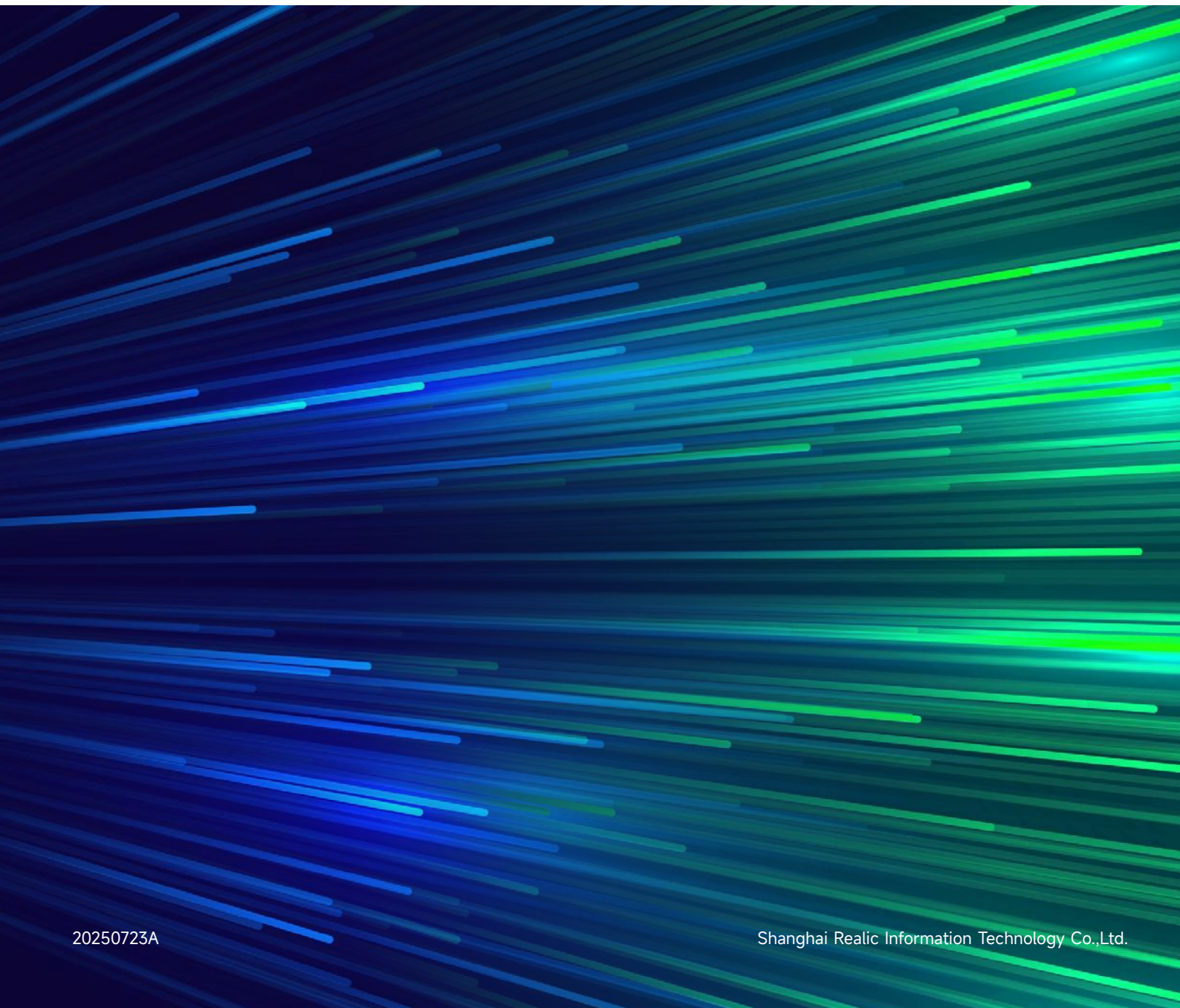


780nm

Tunable Single Frequency Laser

Type: PhaseOptics-0780-02000-L-PM



780nm Tunable Single Frequency Laser

PhaseOptics-0780-02000-L-PM

Using optical fiber amplification and frequency doubling techniques, 780nm Tunable Single Frequency Laser outputs single frequency laser rays with Maximum power up to more than 2W. It provides narrow linewidth, high Polarization Extinction Ratio (PER), good performance and compact cavity design. It is particularly suitable for outdoor operating environments. Embedded with an analog feedback interface, it supports ACC or APC control methods. Customized service is available for designing features of frequency shifting, sideband modulation and optical switch.

Characteristics and Application Fields

Characteristics

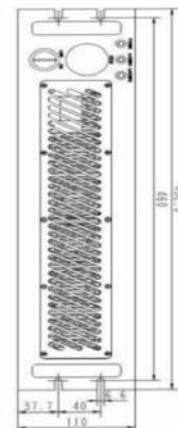
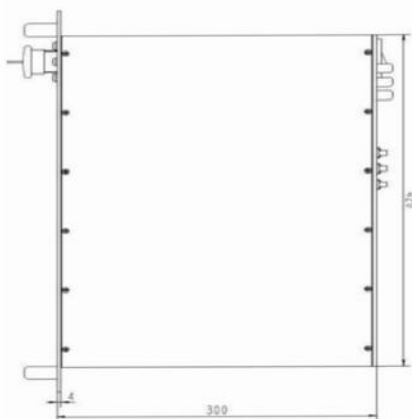
- Narrow Linewidth
- High Power
- Wide Temperature Operation
- Multi-channel Output (Customizable)
- Strong Vibration Resistance (GJB 150.16A-2009)

Application Fields

- Rydberg Atom
- Underwater Communication



Structural Dimensions



Parameter			
Type	PhaseOptics-0780-02000-L-PM		
Parameter	Min.	Typ.	Max.
Center Wavelength (nm)	778	780.24	782
Maximum Output Power (W)	/	2	2.5
Power Stability(RMS) @12h/±2°C	/	0.5%	/
Polarization Extinction Ratio (dB)	/	25	/
Fast Frequency Tuning Bandwidth (MHz)	/	5	/
Linewidth (100μs)	/	20kHz	/
Temperature Tuning Range (GHz)	/	20	/
Fast Frequency Tuning Coefficient (GHz/V)	/	0.5	/
Power Monitor (V)	/	±5	/
Beam Quality / M ²	/	/	1.1
Operating Temperature (°C)	0 to 40 (Or -20 to +50)		
Operating Mode	2-channel Continuous-Wave Output		
Output Fiber (Type)	Polarization-maintaining single-mode fiber, FC/APC, 1.5m		
Feedback Connector	SMA		
Communication Interface	COM / RS485		
Dimensions (W) x (D) x (H) (mm)	19 Inches / 2.5U		
Supply Voltage (V)	AC220V,50Hz		

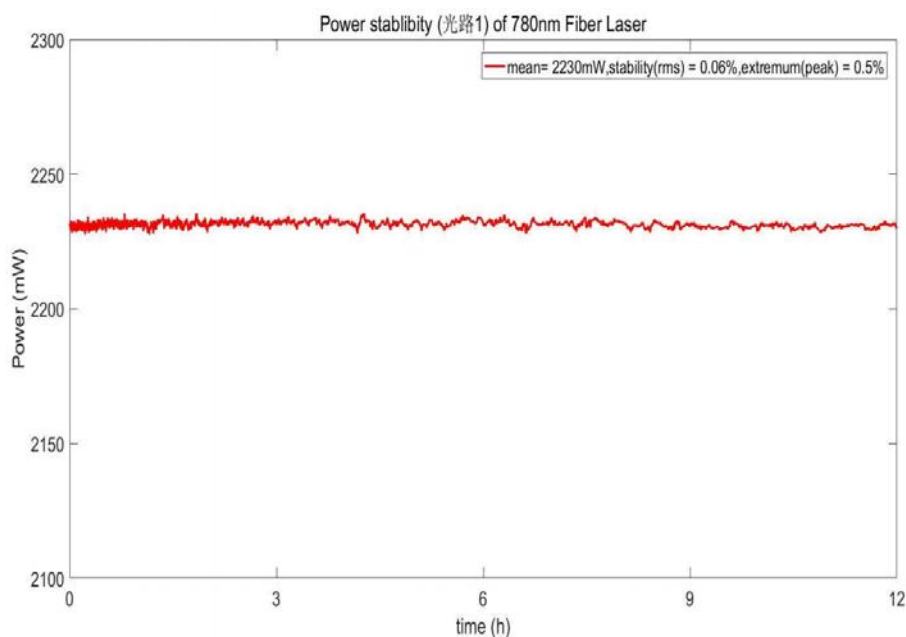


Photo 1-1 Output Power and Stability of Channel 1

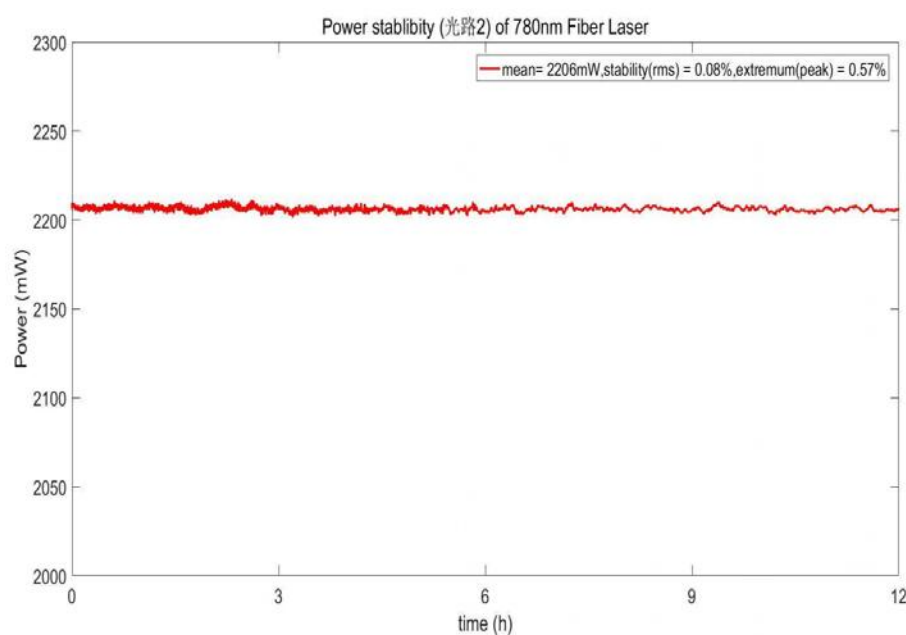


Photo 1-2 Output Power and Stability of Channel 2

