

Single Module Frequency Doubled 780nm Laser

CONTROL ELECTRONICS & MODULES

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.

- Ultra
- Small Size Narrow Linewidth
- Tunable Continuous Laser
- Rubidium Atom Quantum Computing
- Rubidium Atomic Gravimeter Precision
- Distance Measurement

Specifications

Parameter	FL-SF-780-X (1) -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 (2) (100 us integration)	<6kHz / <15kHz
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
RIN Relative Intensity Noise (10Hz-100MHz, RMS)	<0.08%
Temperature	15-25°C
Power Consumption	<24W
Power Supply	24V DC

Source: WaveQuanta product database. For ordering, customization (wavelength, power, package) and quotation, contact sales@wavequanta.com.