

1U Small Size 780nm Laser (FECL)

NARROW-LINEWIDTH CW LASERS

1U Small Size 780nm Laser (FECL) 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 1U 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	FECL-SF-780-X (1) -1U
Center Wavelength	780.24nm
Output Power	>500mW / >2W
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%
Cooling	Air Cooling
Power Supply	100-240V , 50/60Hz

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