

780nm Narrow Linewidth Laser (FECL)

NARROW-LINEWIDTH CW LASERS



780nm Narrow Linewidth Laser (FECL) 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 780nm laser, which is widely used in quantum precision measurement and optical precision measurement.

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

Specifications

Parameter	FECL-SF-780-X (1) -CW
Center Wavelength	780.24nm
Output Power	>0.2W / >0.5W / >1W / >2W / >5W / >8W / >20W
Operation Mode	Continuous
Tuning Range (temperature)	>15GHz, Continuous without mode hop
Output Mode	Single-mode polarization-maintaining fiber output (2) / Spatial collimation output, diameter 0.6-1mm
Linewidth (3) (100us integration)	<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
Temperature	15-30°C (1)
Power Supply	100-240V AC, 50/60Hz

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