

770nm Narrow linewidth laser

NARROW-LINEWIDTH CW LASERS



770nm Narrow linewidth laser Based on high-power, low-noise Er-doped fiber lasers amplification and frequency doubling technology, Precilasers can provide high-power, narrow linewidth laser output with a wavelength ranging from 765 to 798 nm.

- Narrow Linewidth Low
- High Power Power Stability
- Excellent Beam Quality
- Never Mode
- High Temperature And Vibration
- Resistance
- Rb Atom Cooling Magic
- Optical Lattice Atom Interferometry

Specifications

Parameter	FL-SF-XXXX-YY-CW (1)
Wavelength Range	765-770nm / 770-785nm / 785-798nm
Typical Wavelength	767nm / 770nm / 780nm / 795nm
Seed Laser Type	Fiber DFB Seed Laser (1530-1596nm) / Fixed External Cavity Diode Laser (FECL,1530-1596nm)
Output Power (2)	>0.2W/2W/6W / >0.2W/2W/8W/15W / >0.2W/2W/4W
Thermal Tuning Range	>0.5nm, Never Mode-hop / >15GHz, Never Mode-hop
Output Mode	PM Fiber Output, FC/APC (Output Power ≤2W) OR Free Space Output (Compatible with all versions)
Beam Diameter (3)	0.7-1.0mm
Power Tuning Range	5-100%
Beam Pointing Stability	<10μrad
Linewidth (4) (100us)	<2kHz/5kHz / <10kHz/20kHz
PER	linear,>20dB
Power Stability	<0.75%@3hours, RMS
Beam Quality	TEM00, M2<1.1
Fast Frequency Tuning Range	>3GHz / >1GHz
Fast Frequency Tuning Bandwidth	>5kHz,PZT Tuning / >1MHz,Current Tuning
AOM Tuning Range (Optional)	>±5MHz / /
AOM Tuning Bandwidth (Optional)	>500kHz / /
RIN	<0.08% (RMS,10Hz-100MHz)
Cooling	Air Cooling/Water Cooling
Temperature	15-30 °C (Air Cooling) or 15-35 °C (Water Cooling)
Power Supply	100V-240V, AC, 50/60Hz
Communication	RS422

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