

420nm Narrow linewidth laser

NARROW-LINEWIDTH CW LASERS



420nm Narrow linewidth laser Based on high-power, low-noise fiber lasers amplification, sum-frequency technology and frequency doubling technology , Precilasers can provide high-power, narrow linewidth laser output with a wavelength ranging from 405 to 440nm.

- Narrow Linewidth Low
- High Power Power Stability
- Excellent Beam Quality
- Never Mode
- High Temperature And Vibration
- Resistance
- Lithium Ion
- Calcium Ion

Specifications

Parameter	FL-SF-XXXX-YY-CW (1)
Wavelength Range	405-440nm
Typical Wavelength	421nm
Operation Mode	CW
Output Power	> 0.3W / > 1W / > 2W / > 4W / > 8W
Monitor Output Power	>5mW
Seed Laser Type	FECL+fiber DFB seed laser / double fiber DFB seed laser
Thermal Tuning Range	> 150GHz , Never Mode-hop / > 350GHz , Never Mode-hop
Output Mode	Free Space Output
Beam Diameter	0.7-1.0mm
Linewidth (2) (100us)	< 40kHz
PER	> 20dB
Power Stability	< 0.75%
Beam Quality	M ₂ <1.2
PZT Frequency Tuning Range	> 3GHz / > 3GHz
PZT Frequency Tuning Bandwidth	> 5kHz / > 5kHz
Fast Frequency Tuning Range	> 500MHz / /
Fast Frequency Tuning Bandwidth	> 1MHz / /
AOM Tuning Range (Optional)	> ± 5MHz
AOM Tuning Bandwidth (Optional)	> 500kHz
RIN	< 0.08% (10Hz-100MHz , RMS)
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.