

531nm Narrow linewidth laser

NARROW-LINEWIDTH CW LASERS



531nm Narrow linewidth laser Based on high-power, low-noise Yb-doped fiber lasers amplifier and frequency doubling technology, Precilasers can provide high-power, narrow linewidth laser output from 506 to 567 nm.

- Narrow Linewidth Low
- High Power Power Stability
- Excellent Beam Quality
- Never Mode
- High Temperature And Vibration
- Resistance
- Laser cooling
- Optical Lattice Pump laser

Specifications

| Parameter | FL-SF-XXXX-YY-CW (1) |
|---------------------------------|--|
| Wavelength Range | 506-512nm / 512-532nm / 532nm / 543-556nm / 556-567nm |
| Typical Wavelength | 509nm / 515nm / 532nm / 556nm / 567nm |
| Seed Laser Type | Fiber DFB Seed Laser (1012-1134nm) / Fixed External Cavity Diode Laser (FECL,1012-1134nm) |
| Output Power | >5W/30W / >10W/30W / >20W/30W/80W / >10W/20W / >3W |
| Thermal Tuning Range (2) | >0.35nm, Never Mode-hop / >10GHz, Never Mode-hop |
| Output Mode | PM Fiber Output, FC/APC (Output Power \leq 0.5W) OR Free Space Output (Compatible with all versions) |
| Beam Diameter (3) | 0.7-1.0mm |
| Power Tuning Range | 10-100% |
| Beam Pointing Stability | <50 μ rad |
| Linewidth (4) (100us) | <6kHz/20kHz / <20kHz/60kHz |
| PER | linear,>20dB |
| Power Stability | <0.75%@3hours, RMS |
| Beam Quality | TEM00, M ² <1.1 |
| Fast Frequency Tuning Range | >3GHz / >1GHz |
| Fast Frequency Tuning Bandwidth | >5kHz,PZT Tuning / >1MHz,Current Tuning |
| AOM Tuning Range (Optional) | > \pm 5MHz |
| AOM Tuning Bandwidth (Optional) | >500kHz |
| RIN | <0.1% (RMS,10Hz-100MHz) |
| Cooling | Air Cooling (Output Power \leq 20W) /Water Cooling(Compatible with all versions) |
| 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.