

852nm Narrow linewidth laser

NARROW-LINEWIDTH CW LASERS



852nm Narrow linewidth laser Based on high-power, low-noise fiber lasers amplification and sum-frequency technology, Precilasers can provide high-power, narrow linewidth laser output with a wavelength ranging from 810 to 880 nm.

- Quantum Computing
- Rb Quantum Computing Quantum
- Precision Measurement
- Sr Atomic Clock Quantum
- Precision Measurement
- Cs Fountain Clock Quantum
- Precision Measurement
- Rydberg Field Measurement

Specifications

| Parameter | FL-SF-XXXX-YY-CW (1) |
|---------------------------------|--|
| Wavelength Range | 811-820nm / 821-840nm / 841-880nm |
| Typical Wavelength | 813nm, 840nm, 852nm, 866nm |
| Output Power | 2W/4W/6W/8W/10W/15W/25W / 2W/4W/6W/8W/10W/15W/30W / 2W/4W/6W/8W/10W/15W/30W |
| RIN | <0.05% (10Hz-100MHz, RMS) |
| Thermal Tuning Range | >0.15nm, Never Mode-hop |
| Output Mode | Free Space Output, Beam Diameter 0.7-1.0mm |
| Linewidth (2) (100us) | <20kHz |
| PER | >20dB |
| Power Stability | <0.75%@3hours, RMS |
| Beam Quality | M2<1.1 |
| Fast Frequency Tuning Range | >500MHz |
| Fast Frequency Tuning Bandwidth | >1MHz |
| PZT Frequency Tuning Range | >3GHz |
| PZT Frequency Tuning Bandwidth | >5kHz |
| Cooling | Air Cooling(Output Power≤2W) Or Water Cooling |
| PM Fiber Output | For output power≤2W lasers, single-mode polarization-maintaining fiber output can be selected. |
| Temperature | 15-30°C |
| Power Consumption | <400W |
| Power Supply | 100V-240V, AC, 50/60Hz |

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