

# 689nm Narrow linewidth laser

## NARROW-LINEWIDTH CW LASERS



689nm Narrow linewidth laser Based on high-power, low-noise fiber amplification and sum frequency generation technology, Precilasers can achieve high-power, narrow-linewidth laser output at 689nm.

- Narrow Linewidth Low
- High Power Power Stability
- Excellent Beam Quality
- Mode
- Hopping Free High Temperature
- And Vibration Resistance

### Specifications

Parameter	FL-SF-XXXX-YY-CW (1)
Typical Wavelength	689nm
Operation Mode	CW
Output Power	>0.5W / >2W / >5W / >8W
Thermal Tuning Range	>0.2nm, 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	M <sub>2</sub> <1.1
PZT Frequency Tuning Range	>3GHz
PZT Frequency Tuning Bandwidth	>5kHz
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](mailto:sales@wavequanta.com).