

# 690nm Narrow linewidth laser

## NARROW-LINEWIDTH CW LASERS



690nm 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 658 to 720 nm.

- 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)                               |
|---------------------------------|--|
| Wavelength Range                | 658-720nm  |
| Typical Wavelength              | 671nm, 689nm, 698nm, 707nm                         |
| 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).