

# 1525-1625nm Laser

## NARROW-LINEWIDTH CW LASERS



1525-1625nm Laser Based on narrow linewidth seed lasers and erbium-doped fiber amplification technology, it enables high-power, narrow linewidth laser output in the 1525-1625 nm range, with a maximum output power of 40 W. Meanwhile, it ensures extremely low intensity noise and phase noise of the output laser. This laser features high power, low-noise amplification, and ultra-fast seed cut-off protection, among other advantages.

- Narrow Linewidth Low Intensity
- Noise Excellent Beam Quality
- Seed Power Off Protection
- System
- Optical Communications Li
- Frequency
- Doubled Fundamental Source Interferometry
- Mid

### Specifications

Parameter	Specification
Model Number	FL-SF-X-Y-CW (1)
Wavelength Range	1525-1530nm / 1530-1535nm / 1535-1570nm / 1570-1596nm / 1596-1625nm
Output Power	>1W / >2W/10W/15W / >2W/20W/40W / >2W/10W / >2W/5W
Typical Wavelength	1550.12nm, 1560.48nm
Seed Laser (2)	Fiber DFB Seed Laser (1525-1610nm)/Fixed External Cavity Diode Laser(FECL, 1525-1625nm)
Linewidth(100us Integration Time)	<1kHz/2kHz@DFB seed;<5kHz/10kHz@FECL seed
Total Tuning Range (Temperature)	>1nm@DFB seed;>7GHz@FECL seed
Fast Tuning Bandwidth	>5kHz, PZT @DFB seed;>1MHz, Current@FECL seed
Fast Tuning Range	>3GHz/10GHz, PZT @DFB seed; >500MHz, Current@FECL seed
AOM Tuning Bandwidth (Optional)	>500kHz
AOM Tuning Range (Optional)	>±5MHz
Power Stability	<0.75% @3hours, RMS
Power Tuning Range	1-100%
Output Mode	Single Mode PM Fiber, FC/APC Connector (Output Power≤2W) Or Free Space Collimated Output
Beam Diameter	0.6±0.2mm
Beam Quality	TEM00, M <sup>2</sup> <1.1
Polarization	Linear, >23dB
Output Isolation	>25dB
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.