

1539nm Narrow linewidth laser

NARROW-LINEWIDTH CW LASERS



1539nm Narrow linewidth laser Based on narrow-linewidth seed lasers and erbium-doped fiber amplification technology, it achieves high-power, narrow-linewidth laser output in the 1525-1625nm range, with a maximum output of 40W. It also ensures extremely low intensity noise and phase noise of the output laser. Features include high power, low-noise amplification, and ultra-fast seed cut-off protection.

- Narrow Linewidth Excellent Beam
- Quality Seed Power
- Protection System Low Noise
- Optical Communication Light Detection
- Ranging Frequency
- Doubled Fundamental Frequency Light
- Source Interferometry Mid
- Infrared Parametric Oscillation Pumping

Specifications

Parameter	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 / <5kHz/10kHz
Total Tuning Range (Temperature)	>1nm / >7GHz
Fast Tuning Bandwidth	>5kHz, PZT / >1MHz, Current
Fast Tuning Range	>3GHz/10GHz, PZT / >500MHz, Current
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 ² <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.