1695-2100nm Laser

NARROW-LINEWIDTH CW LASERS

1695-2100nm Laser Based on thulium-doped fiber (TDF) DFB seed lasers and amplification technology, it enables single-frequency laser output in the 1695-2100 nm range, with a maximum output power of 50 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	FL-SF-X-Y-CW (1)
Wavelength Range	1695-1730nm / 1730-1850nm / 1850-1900nm / 1900-2050nm / 2050-2100nm
Output Power	>1W/2W/5W / >2W/10W/20W / >2W/10W/20W/30W / >2W/15W/30W / >2W/10W/20W
Typical Wavelength	1762nm, 2051nm
Seed Laser (2)	Tm Fiber DFB Laser
Linewidth(100us Integration Time)	<5kHz/10kHz
Total Tuning Range (Temperature)	>1nm
PZT Tuning Bandwidth	>5kHz
PZT Tuning Range	>3GHz/10GHz
AOM Tuning Bandwidth (Optional)	>500kHz
AOM Tuning Range (Optional)	>±5MHz
Power Stability	<0.75% @3hours, RMS
Power Tuning Range	1-100%
Output Mode (3)	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.