

594nm Narrow linewidth laser

NARROW-LINEWIDTH CW LASERS



594nm Narrow linewidth laser A thulium-doped fiber DFB laser is frequency-doubled, then sum frequency generated with a erbium-doped fiber laser to produce high-power narrow-linewidth laser output.

- Narrow Linewidth Low Intensity
- Noise High Power Active
- Power Stabilization
- Excellent Beam Quality
- Never Mode
- Optical Lattices
- Atomic Cooling and Trapping
- Laser Medical Treatment Solar

Specifications

Parameter	FL-SF-XXXX-YY-CW (1)
Wavelength	594nm
Output Power	>2W / >5W
Tuning Range (temperature) (2)	>150GHz, Continuous without mode hop
Output Mode	Spatially collimated output
Beam Waist Diameter	0.7-1.0mm
Power Adjustment Range	Power adjustment range 5-100%
Pointing Stability	<10 μ rad
Linewidth (3) (100 us integration)	<30kHz
Polarization Extinction Ratio	Linear >20dB
Power Stability	<0.75% @3hours, RMS
Beam Quality	TEM00, M ² <1.1
Fast Tuning Range	>3GHz
Fast Tuning Bandwidth	>5kHz
Current Tuning Range	>500MHz
Current Tuning Bandwidth	>1MHz
Relative Intensity Noise	<0.08% (RMS, 10Hz-100MHz integral)
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.