

578nm (THG)

NARROW-LINEWIDTH CW LASERS



578nm (THG) Based on high-power, low-noise thulium-doped fiber amplification and frequency tripling technology, high-power narrow-linewidth laser output with any central wavelength in the range of 578nm is achieved.

- Narrow Linewidth Low Intensity
- Noise High Power Active
- Power Stability
- Excellent Beam Quality
- Never Mode
- Resistant to High and
- Low Temperature and Vibration
- Working Environment

Specifications

Parameter	FL-SF-XXXX-YY-CW (1)
Wavelengths	578nm
Seed Laser Type	Thulium-doped fiber DFB seed laser
Output Power (2)	>0.8W
Tuning range (temperature)	>0.33nm, Continuous without mode hop
Output Mode	Spatially Collimated Output
Beam Waist Diameter (2)	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	TEM ₀₀ , M ₂ <1.1
Fast Tuning Range	>3GHz
Fast Tuning Bandwidth	>5kHz
AOM Tuning Range (Option)	> \pm 5MHz
AOM Tuning Bandwidth (Option)	>500kHz
Relative Intensity Noise	<0.08% (RMS, 10Hz-100MHz integration)
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.