

# 1695-2140nm Fiber DFB laser

## NARROW-LINEWIDTH CW LASERS



1695-2140nm Fiber DFB laser Precilasers' narrow linewidth thulium-doped fiber DFB laser is realized by writing fiber gratings on thulium-doped fiber, which can achieve the full range of 1695-2140nm. It is widely used in quantum computing, for example, 1762nm can be used in quantum computing systems based on Ba+.

- Narrow Line Width Tunable
- Linear Polarization Continuous Laser
- Ba
- Quantum Computing Quantum Computing
- Quantum Precision Measurement

### Specifications

Parameter	FL-SF-XXXX-S (1)
Wavelength Optional Range	1695-2140nm
Frequently Used Wavelengths	1762nm
Output Power	>10mW@>1695nm / >5mW@>2050nm
Tuning Range (Temperature)	>1nm, Never Mode-hop
Output Mode	Single-mode polarization-maintaining fiber, FC/APC connector
Linewidth (2) (100us integration time)	<5kHz (3) / <10kHz
Polarization Extinction Ratio (PER)	>23dB
Power Stability (3 Hour RMS)	<0.75%
Beam Quality	M <sub>2</sub> <1.05
Intensity Noise (10Hz-10MHz integration)	<0.05%
Intensity Noise (10MHz)	<-140dBc/Hz
Intensity Noise (Peak)	<-130dBc/Hz
Relaxation Oscillation Peak Frequency	1-3MHz
PZT Tuning Range	>3GHz
PZT Tuning Bandwidth	>5kHz
Cooling	Air Cooling / Water Cooling
Cooling	Air Cooling / Water Cooling
Weight	<9kg / <15kg
Operating Temperature	15°C-30°C
Power Consumption	<70W
Powered By	100V-220V, AC, 50Hz

Source: WaveQuanta product database. For ordering, customization (wavelength, power, package) and quotation, contact sales@wavequanta.com.