

1014.8-1162nm Fiber DFB laser

NARROW-LINEWIDTH CW LASERS

1014.8-1162nm Fiber DFB laser Precilasers' narrow-linewidth Ytterbium-doped fiber DFB laser is realized by writing fiber gratings on Ytterbium-doped fiber. It can achieve any wavelength in the range of 1014.8-1162nm with a linewidth of only 3kHz/10kHz.

- Narrow Line Width Tunable
- Never Mode
- Linear Polarization Continuous Laser
- Quantum Computing Quantum Precision
- Measurement Optical Precision Measurement

Specifications

Parameter	Specification
Model Number	FL-SF-XXXX-S (1)
Available Wavelength Options	1014.8-1162nm
Typical Wavelength	1018nm, 1064nm, 1112nm
Output Power	>10mW/>50mW@1020-1090nm
Tuning Range (Temperature Tuning)	>0.7nm, Never Mode-hop
Output Mode	SM PM Fiber Output
Linewidth (2) (100µs integration time)	<3kHz (3) /10kHz
Polarization Extinction Ratio (PER)	>23dB
Power Stability (3 hour,RMS)	<0.5%
Beam Quality	M ₂ <1.05
Intensity Noise (10Hz-10MHz integration)	<0.03%@1020-1090nm <0.1%@others
Intensity Noise (10MHz)	<-140dBc/Hz
Intensity Noise (Peak)	<-130dBc/Hz@1020-1090nm <-110dBc/Hz@others
Relaxation Oscillation Peak Frequency (4)	1-3MHz
PZT Tuning Range	>3GHz
PZT Tuning Bandwidth	>5kHz
Weight	<1.1kg
Operating Temperature	10°C-60°C
Power Consumption	<15W
Powered By	12V, 1A, DC
Power Adapter	Enter: 100-240V AC, 50-60Hz, 1.4A; Output: 12V 5A DC

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