

# 1018nm Narrow linewidth laser

## NARROW-LINEWIDTH CW LASERS



1018nm Narrow linewidth laser Based on Yb-doped fiber DFB seed laser and Yb-doped fiber amplifier, Precilasers can provide 1018nm narrow linewidth lasers and maximum power of 200W, all of these lasers has very low phase noise and intensity noise.

- Low phase noise Low
- Good beam quality
- Pumping lasers for
- Optical lattice Precision measurement

### Specifications

Parameter	FL-SF-X-Y-CW (1)
Wavelength	1018nm
Output power	2W/10W/30W/50W/100W
Seed laser type	Fiber DFB seed laser (1014-1156nm) / Fixed external cavity diode laser (FECL, 1014-1156nm)
Linewidth(100s Integration Time)	<3kHz/5kHz / <10kHz/30kHz
Total tuning range (Temperature)	>0.7nm / >5GHz
Fast tuning bandwidth	>5kHz, PZT tuning / >1MHz, Current tuning
Fast tuning range	>3GHz/10GHz / >500MHz
AOM tuning bandwidth (optional)	>500kHz
AOM tuning range (optional)	>±5MHz
Relative intensity noise	<0.03% (RMS, 10Hz-10MHz integration)
Power stability	<0.75% @3hours, RMS
Power tuning range	1-100%
Output mode	PM fiber with FC/APC connector (Power≤2W) OR Free space collimated output (For all power)
Beam diameter (2)	0.6±0.2mm(Power≤30W), 1.7±0.2mm(Power>30W)
Pointing stability	<±2μrad/°C
Beam quality	TEM00, M <sup>2</sup> <1.1
Polarization	Linear, >23dB
Output isolaton	>25dB
Cooling	Air cooling (Power≤20W)/Water cooling (For all power)
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.