

FL-1908-LN-L/1-5W

## LOW-NOISE FIBER LASER AT 1908 nm

The 1908nm low-noise laser has the characteristics of ultra-stable output power, excellent beam quality and extremely low relative intensity noise(RIN), which is widely used in optical communication, light detection and ranging, frequency-doubled fundamental frequency light source and scientific research, etc.



### SPECIFICATIONS

Wavelength (nm)	1908±1
Operating mode	CW
Output power (W) <sup>1</sup>	1-5
Power stability (rms, 4 hours ±3°C)	<2%, <1%
Transverse mode	TEM <sub>00</sub>
Longitudinal mode	SLM
Current adjustment range	1-100%
Spectral linewidth (nm)	<0.006
Relative intensity noise (rms, 10Hz-3MHz)	<0.1%, <0.05%
Frequency shift (MHz)(over ±2°C and 8hours )	<±200
M <sup>2</sup>	<1.1
Fiber connector <sup>2</sup>	FC/APC, Collimator optional
Fiber length(m) <sup>3</sup>	1
Fiber jacket	PVC, Metal optional
Beam diameter (mm) <sup>4</sup>	4±1@Collimator output
Pointing stability over temperature (urad/°C)	<50
Polarization ratio (dB)	>15, after PM fiber
Warm-up time (minutes)	<30
Cooled method	Air cooled or Water cooled
Operating temperature (°C)	15-30
Power supply (VAC)	110/220VAC
Dimensions of Laser	483×452×133mm <sup>3</sup> @Air cooled 483×461×120 mm <sup>3</sup> @Water cooled
Weight of Laser	10kg@Air cooled, 11kg@Water cooled
Expected lifetime (hours)	>10000

1 Any power level can be selected in this range.

2 Other output mode can be customized.

3 Other lengths are available on request.

4 Other beam diameter can be customized.