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)[1]	1-5	
Power stability (rms, 4 hours ±3℃)	<2%, <1%	
Transverse mode	TEM_{00}	
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℃and 8hours)	<±200	
M^2	<1.1	
Fiber connector[2]	FC/APC, Collimator optional	
Fiber length(m)[3]	1	
Fiber jacket	PVC, Metal optional	
Beam diameter (mm)[4]	4±1@Collimator output	
Pointing stability (urad)	<5	<10
Polarization ratio (dB)	>15, after PM fiber	
Warm-up time (minutes)	<30	
Cooled method	Air cooled or Water cooled	
Operating temperature (℃)	15-30	
Power supply (VAC)	110/220VAC	
Dimensions of Laser	483×452 ×133mm^3@Air cooled 483×461 ×120 mm^3@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.