FL-1908-SLM/1-5W

SINGLE LONGITUDINAL MODE FIBER LASER

The high-power, single-longitudinal-mode, PM fiber laser comprises a seed laser and an amplifier. It is optimized for narrow linewidth operation and applications that require higher optical power, which has been designed for pump laser for frequency converteds, LIDAR, biomedicine, laser cooling of atoms, pump for mid-IR OPO, etc.

SPECIFICATIONS

Wavelength (nm)	1908±1	
Operating mode	CW	
Output power (W)[1]	1-5	
Power stability (rms, 4 hours ±3°C)	<2%, <1%, <0.5%	
Transverse mode	TEM_{00}	
Longitudinal mode	SLM	
Current adjustment range	1-100%	
Spectral linewidth (kHz)	<50	
Relative intensity noise (rms, 10Hz-3MHz)	<0.3%, <0.1%, (<0.05% optional)	
Frequency shift (MHz)(over ±2°Cand 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 (°C)	15-30	
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	
Power supply (VAC)	110/220VAC	
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.