



FL-SLM-Seed Series (1014-1120nm)

SINGLE FREQUENCY MODE
SEED LASER

The single-longitudinal-mode, PM fiber seed laser at 1014-1120nm, excellent beam quality, narrow linewidth and high output power stability, which has been designed for operation in optical traps, pumping source, scientific research, quantum computing, etc.

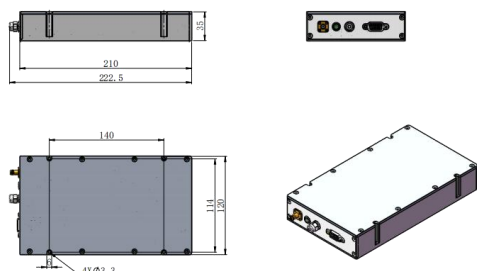


SPECIFICATIONS

Selectable wavelength range(nm)	1014-1120	
Typical wavelength (nm)	1014, 1018, 1027, 1030, 1040, 1050, 1053, 1064, 1080, 1100	1120
Operating mode	CW	
Output power (mW) ¹	1-50	1-5
Power stability (rms, 4 hours ±3°C)	<3%, <2%, <1%	
Temperature turning range (nm)	>0.5	
Transverse mode	TEM ₀₀	
Output mode	Single-mode PM fiber	
Numerical aperture	0.14NA	
Fiber connector ²	FC/APC	
Fiber length(m) ³	1	
Fiber jacket	PVC, Metal optional	
Spectral linewidth (kHz)	<10, <5	<100@1120nm
Polarization ratio (dB)	>20, after PM fiber	
M ²	<1.05	
Relative intensity noise (rms, 10Hz-10MHz)	<0.1%, <0.05%, (<0.03% optional)	
Relative intensity noise (dBc/Hz)	<-140 (10MHz)	
Peak intensity noise (dBc/Hz)	<-130	
Relaxation oscillation peak frequency (MHz)	2-3	
PZT Turning range (GHz)	>3	
PZT Turning bandwidth (kHz)	>5	
Cooled method	Conduction cooled	
Operating temperature (°C)	15-30	
Power dissipation (W)	12	
Operating voltage (VDC)	12V/11.5A	
Expected lifetime (hours)	>10000	

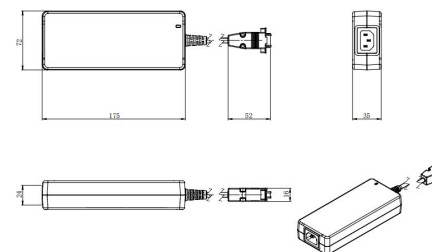


LASER HEAD (Driver integrated)



210(L)×120(W)×35(H) mm³, 1kg

POWER SUPPLY (100-240VAC) optional



350(L)×185(W)×60(H) mm³, 0.7kg

1 Any power level can be selected in this range. 2 Other output mode can be customized. 3 Other lengths are available on request.