



Frequency stabilized SLM laser

FREQUENCY STABILIZED SLM LASER

Single longitudinal mode, frequency stabilized laser is made features of stable frequency and low frequency noise, which is used in optical frequency standards, gravitational wave detection, tests of fundamental physics, atomic clocks, high resolution spectrum, Laser Radar, Brillouin scattering, precision measurement, etc.



SPECIFICATIONS

Wavelength (nm)	1342±1	
Operating mode	CW	
Output power (mW)	>1, 5, 10, 20, ... , 100	>100, ... , 200
Power stability (rms, over 4 hours)	<1%, <2%, <3%, <5%	<2%, <3%, <5%
Transverse mode	TEM ₀₀	
Longitudinal mode	Single	
Spectral linewidth (nm)	<0.00001	
Frequency shift over 8 hours (MHz)	<±200	
Frequency shift with Temp (MHz/°C)	<200	
Coherent length (m)	>50	
M ² factor	<2.0	
Extra heatsink	TC-01	



MSL-III-1342

140.5 (L) × 73 (W) × 46.2 (H) mm³, 0.6kg

PSU-III-FDA

171 (L) × 130(W) × 62.2 (H) mm³, 1.2kg

TC-01 Heatsink

197(L)×117.5(W) ×57.3(H) mm³, 1.6 kg

Driver

277(L) × 145(W) × 106(H) mm³, 2.6 kg