



MSL-DU-xxx-W series



FREQUENCY STABILIZED SLM LASER

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



SPECIFICATIONS

Wavelength (nm)	639±1
Output power (mW)	1-750
Power stability (rms, over 4 hours)	<3%, <2%, <1%
Transverse mode	TEM ₀₀
Longitudinal mode	Single
Operating mode	CW
Spectral linewidth (nm)	<0.00001
Coherent length (m)	>40
Frequency shift over 8 hours	≤±100 MHz (±0.15pm)
Noise of amplitude (rms, 1Hz~20MHz)	<1%, <0.5%
M ² factor	<1.2, <1.1
Beam diameter at the aperture (1/e ² , mm)	<1.5
Beam divergence (mrad)	<1.5
Polarization Ratio	>100:1, Horizontal (Vertical Optional)
Pointing stability after warm-up (mrad)	<0.05
Warm-up time (minutes)	<30
Beam height from base plate (mm)	47.4
Cooled method (Water Cooled)	WCH-580
Operating Temperature (°C)	10-35
Power supply (90-264VAC)	PSU-SR
Expected lifetime (hours)	10000
Warranty	1 year

Note: The laser head must be used on a water cooling system.

LASER HEAD	POWER SUPPLY	Water Chiller (WCH-580)
<p>223.5 (L)×115(W) ×75(H) mm³,2.1kg</p>	<p>188(L) ×145(W) ×83(H) mm³, 1.2kg</p>	<p>253.2(L) ×363.8(W) ×240.6(H) mm³, 11.0 kg</p>