



MSL-FN-656.5-S/1-50mW



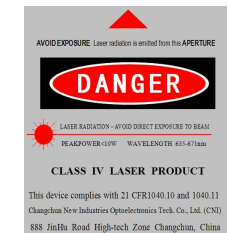
**FREQUENCY STABILIZED SLM LASER**

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)	656.5±1
Operating mode	CW
Output power (mW)	>1, 5, 10, 20, ..., 50
Power stability (rms, over 4 hours)	<1%, <3%, <5%
Transverse mode	TEM <sub>00</sub>
Longitudinal mode	Single
Spectral linewidth (nm)	<0.00001
Noise of amplitude (rms, 1Hz~20MHz)	<1%, typical<0.5%
Beam diameter at the aperture (1/e <sup>2</sup> , mm)	<2.0
Beam divergence, full angle (mrad)	<1.2
Polarization ratio	>100:1, Vertical±5 degree (Horizontal Optional)
Warm-up time (minutes)	<10
Pointing stability after warm-up (mrad)	<0.05
Frequency shift over 8 hours (MHz)	<±200
Frequency shift with Temp (MHz/°C)	<200
Coherent length (m)	>50
M <sup>2</sup> factor	<1.2
Extra heatsink	TC-01
Expected lifetime (hours)	10000
Warranty	1 year



Note: The system includes the laser and the heatsink.

<p><b>MSL-FN-656.5</b></p> <p>197(L)×70(W)×50(H) mm<sup>3</sup>, 1.5 kg</p>	<p><b>PSU-H-FDA</b></p> <p>275(L)×145(W)×104(H) mm<sup>3</sup>, 2.3 kg</p>	<p><b>TC-01 Heatsink</b></p> <p>197(L)×117.5(W)×57.3(H) mm<sup>3</sup>, 1.6 kg</p>	<p><b>Driver</b></p> <p>277(L)×145(W)×106(H) mm<sup>3</sup>, 2.6 kg</p>
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