



MSL-FN-671-S/1-500mW



**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)	671±1	
Operating mode	CW	
Output power (mW)	>1, 5, 10, 20, ... , 300	>300, ... , 500
Power stability (rms, over 4 hours)	<1%, <2%, <3%	<2%, <3%
Transverse mode	TEM <sub>00</sub>	
Longitudinal mode	Single	
Spectral linewidth (nm)	<0.0001	
Noise of amplitude (rms, 1Hz~20MHz)	<1%, typical<0.5%	
Beam diameter at the aperture (1/e <sup>2</sup> , mm)	<2.0, typical<1.5	
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(<1.1 optional)	<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-671</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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