



MSL-FN-457-S/1-350mW



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, precision measurement, etc.



SPECIFICATIONS

Wavelength (nm)	457±1	
Operating mode	CW	
Output power (mW)	>1, 5, 10, 20, ... , 150	>150, 160, ... , 350
Power stability (rms, over 4 hours)	<1%, <2%, <3%	<2%, <3%, <5%
Transverse mode	TEM <sub>00</sub>	Near TEM <sub>00</sub>
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 <sup>2</sup> factor	<1.2	
Extra heatsink	TC-01	



Note: The system includes the laser and the heatsink.

<p>MSL-FN-457</p> <p>197(L)×70(W)×50(H) mm<sup>3</sup>, 2.0 kg</p>	<p>PSU-H-FDA</p> <p>236(L)×145(W)×104(H) mm<sup>3</sup>, 2.3 kg</p>	<p>TC-01 Heatsink</p> <p>197(L)×117.5(W)×57.3(H) mm<sup>3</sup>, 1.6 kg</p>	<p>Driver</p> <p>277(L)×145(W)×106(H) mm<sup>3</sup>, 2.6 kg</p>
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