

**MSL-DS series**



**SINGLE LONGITUDINAL MODE LASER**

All solid state single longitudinal mode laser is made features of ultra compact, long lifetime, low cost and easy operating, which is used in DNA sequencing, flow cytometry, cell sorting, optical instrument, spectrum analysis, interference, measurement, holography, physics experiment, etc.



**SPECIFICATIONS**

Wavelength (nm)	532±1	1064±1
Output power (mW)	1-100	1-300
Power stability (rms, over 4 hours)	<3%, <2%, <1%	
Transverse mode	TEM <sub>00</sub>	
Longitudinal mode	Single	
Operating mode	CW	
Spectral line width (nm)	<0.00001	
Coherent length (m)	>50	
Noise of amplitude (rms, 20Hz~20MHz)	<0.5%	
M <sup>2</sup> factor	<1.2 , <1.1	
Polarization Ratio	>100:1, Horizontal (Vertical Optional)	
Beam diameter at the aperture( 1/e <sup>2</sup> ,mm)	<1.0	
Beam divergence, full angle (mrad)	<1.5	
Pointing stability after warm-up (mrad)	<0.05	
Pointing stability Over Temp. (μrad/°C)	<8	
Warm-up time (minutes)	<5	
Beam height from base plate (mm)	19	
Power Consumption(W)	<6	
Fiber	Multimode/ Single Mode	
Shock Tolerance(6ms)	7g laterally, 15g vertically	
Power Supply	5V DC (Photoelectric integrated)	
Operating temperature (°C)	10-35	
Storage temperature (°C)	5-50	
Modulation	Modulation isn't available.	
Expected lifetime (hours)	10000	
Warranty	1 year	

**Note: The laser head needs to be used on a heat sink with good heat dissipation.**



LASER HEAD (Without Fiber)	LASER HEAD (With Multimode Fiber)	LASER HEAD (With Single Mode Fiber)
<p style="text-align: center; margin-top: 10px;"><b>100 (L) × 60 (W) × 40(H) mm<sup>3</sup>, 0.41kg</b></p>	<p style="text-align: center; margin-top: 10px;"><b>130.5(L) × 60(W) × 45(H) mm<sup>3</sup>, 0.5kg</b></p>	<p style="text-align: center; margin-top: 10px;"><b>139(L) × 60(W) × 46(H) mm<sup>3</sup>, 0.54kg</b></p>