

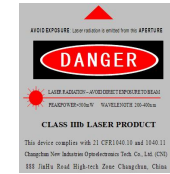


MSL-S series



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

Model	MSL-S-532-A (Harsh condition)	MSL-S-532-B (Normal condition)	MSL-S-532-C (Limiting condition)	MSL-S-1064-A (Harsh condition)		MSL-S-1064-B (Normal condition)	
Wavelength (nm)	532±2			1064±1			
Output power (mW)	1-100			1-500	500-700	1-500	500-700
Power stability (rms, over 4 hours)	<3%, <2%, <1%			<3%, <2%, <1%	<3%, <2%	<3%, <2%, <1%	<3%, <2%
Operating mode	CW						
Transverse mode	TEM <sub>00</sub>						
Longitudinal mode	Single						
Spectral line width	<1MHz						
Noise of amplitude (rms, 20Hz~20MHz)	<0.5%		<0.25%	<0.5%			
Coherent length (m)	>50						
M <sup>2</sup> factor	<1.2						
Beam diameter at the aperture (1/e <sup>2</sup> , mm)	<1.0			1.00±0.05			
Beam divergence, full angle (mrad)	<1.5			<1.7			
Polarization Ratio	>100:1 Horizontal (Vertical Optional)			/			
Warm-up time (minutes)	<5		<3	<5			
Pointing stability Over Temp. (μrad/°C)	<8		/	<8			
Pointing stability after warm-up (mrad)	<0.05						
Frequency shift over 8 hours (MHz) (Optional)	<±200		/	<±200			
Frequency shift with Temp (MHz/°C) (Optional)	<200		/	<200			
Beam height from base plate (mm)	19		29	19			
Power Consumption(W)	<30			<40			
Shock Tolerance(6ms)	7g laterally, 15g vertically						
IP Rating	IP67	IP65	/	IP67		IP65	
Max. Heat Dissipation of Head(W)	10W@50°C	4W@25°C	/	10W@50°C		4W@25°C	
Operating Temperature (°C)	0-60	10-35	-40~60	0-60		10-35	
Power supply (90-264VAC)	PSU-H-FDA	PSU-A-F	PSU-S-OEM-C	PSU-H-FDA		PSU-A-F	
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 (Harsh condition)	LASER HEAD (Normal condition)	LASER HEAD (Limiting condition)
<p><b>110(L)×50(W)×38(H) mm<sup>3</sup>, 0.6 kg</b></p>	<p><b>100 (L) ×40 (W) ×40(H) mm<sup>3</sup>, 0.36kg</b></p>	<p><b>110 (L) ×52 (W) ×52(H) mm<sup>3</sup>, 0.82kg</b></p>

POWER SUPPLY (PSU-H-FDA)	POWER SUPPLY (PSU-A-F)	POWER SUPPLY (PSU-S-OEM-C)
<p style="text-align: center; margin-top: 20px;"><b>276.6(L) × 145(W) × 103.6(H) mm<sup>3</sup>, 2.3 kg</b></p>	<p style="text-align: center; margin-top: 20px;"><b>162(L) × 144(W) × 55(H) mm<sup>3</sup>, 0.5kg</b></p>	<p style="text-align: center; margin-top: 20px;"><b>188(L) × 76.2(W) × 62.3 (H) mm<sup>3</sup>, 0.76kg</b></p>