

### MSL-S-1064/1~500mW

### SINGLE LONGITUDINAL MODE INFRARED LASER AT 1064 nm

All solid state single frequency laser at 1064nm is made features of ultra compact, small size, wide operating temperature, good sealing, long lifetime, low cost and easy operating, working under the pressure of 0.02kPa, which is used in DNA sequencing, flow cytometry, cell sorting, optical instrument, spectrum analysis, interference, measurement, holography, laser printing, chip inspection, physics experiment, etc.



#### SPECIFICATIONS

Model	MSL-S-1064-A(Harsh condition)	MSL-S-1064-B(Normal condition)
Wavelength (nm)	1064±1	
Operating mode	CW	
Output power (mW)	>1,5,10,20,...,500	
Power stability (rms, over 4 hours)	<1%,<3%,<5%	
Laser crystal	Nd:YVO <sub>4</sub>	
Transverse mode	TEM <sub>00</sub>	
Longitudinal mode	Single	
Spectral linewidth (nm)	<0.00001	
Coherent length (m)	>50	
M <sup>2</sup> factor	<1.5	
Beam diameter at the aperture( 1/e <sup>2</sup> ,mm)	0.75±0.05	
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)	<40	
Shock Tolerance(6ms)	7g laterally,15g vertically	
IP Rating	IP67	IP65
Power supply(90-264VAC)	PSU-H-FDA	PSU-III-FDA
Operating temperature (°C)	0-60	10-35
Max. Heat Dissipation of Head(W)	10W@50°C	4W@25°C
Modulation	Modulation isn't available.	
Expected lifetime (hours)	10000	
Warranty	1 year	



MxL-S-1064	PSU-III-LED	PSU-III-FDA
<p>100 (L) × 50 (W) × 38 (H) mm<sup>3</sup>, 0.41kg</p>	<p>236(L) × 145(W) × 104 (H) mm<sup>3</sup>, 2.3kg</p>	<p>133 (L) × 130(W) × 62.2 (H) mm<sup>3</sup>, 1.2kg</p>