



MIL-S-1064/1~1500mW

**LD PUMPED ALL-SOLID-STATE INFRARED LASER AT 1064 nm**

All solid state infrared laser at 1064 nm 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 scientific experiment, measurement, optical instrument, optical sensor, communication, spectrum analysis, etc.



SPECIFICATIONS

Model	MIL-S-1064-A (Harsh condition)	MIL-S-1064-B (Normal condition)		
Wavelength (nm)	1064±1			
Output power (mW)	>1.5,10,20,....,1500			
Laser crystal	Nd:YVO <sub>4</sub>			
Transverse mode	TEM <sub>00</sub>			
Operating mode	CW			
Power stability (rms, over 4 hours)	<1%, <3%, <5%			
Warm-up time (minutes)	<5			
M <sup>2</sup> factor	<1.5			
Beam divergence, full angle (mrad)	<1.5			
Beam diameter at 1/e <sup>2</sup> (mm)	0.7±0.05			
Beam height from base plate (mm)	19			
Polarization ratio	>100:1			
Pointing stability (Over 2hours at 23±3℃)	<0.05			
Pointing stability Over Temp. (μrad/℃)	<5			
Power Consumption(W)	<40			
Shock Tolerance(6ms)	7g laterally, 15g vertically			
IP Rating	IP68	IP65		
Power supply(90-264VAC)	PSU-H-FDA	PSU-III-LED	PSU-III-FDA	PSU-III-OEM-97
Operating temperature (℃)	0-60		10-35	
Max. Heat Dissipation of Head(W)	10W@50℃		4W@25℃	
Modulation	TTL on/off, 1Hz-1KHz, 1KHz-10KHz, 10KHz-30KHz; and Analog modulation option			
Expected lifetime (hours)	10000			
Warranty	1 year			



MxL-S-1064	PSU-H-FDA	PSU-III-LED	PSU-III-FDA	PSU-III-OEM-97
				
100 (L) × 50 (W) × 38 (H) mm <sup>3</sup> , 0.41kg	238 (L) × 146(W) × 102 (H) mm <sup>3</sup> , 2.3 kg	153 (L) × 155(W) × 92 (H) mm <sup>3</sup> , 1.5kg	133 (L) × 130(W) × 65 (H) mm <sup>3</sup> , 1.2kg	81 × 79.5 × 46.6 mm <sup>3</sup> , 0.23kg
				