

**MIL-S-1064/1~1500mW**



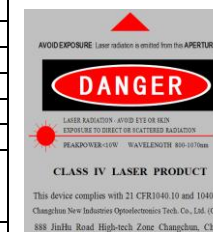
**LD PUMPED ALL-SOLID-STATE  
INFRARED LASER  
AT 1064 nm**

All solid state infrared laser at 1064 nm is made features of ultra compact, small size, wide operating temperature, good sealing, long lifetime, cost-effectiveness 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)	
Central wavelength (nm)	1064±1			
Operating mode	CW			
Laser crystal	Nd:YVO <sub>4</sub>			
Output power (mW)	>1,5,10,...,400	>400,500,...,1500	>1,5,10,...,400	>400,500,...,1500
Power stability (rms, over 4 hours)	<1%,<2%,<3%	<2%,<3%	<1%,<2%,<3%	<2%,<3%
Transverse mode	TEM <sub>00</sub>			
M <sup>2</sup> factor	<1.2	<1.5	<1.2	<1.5
Beam diameter at the aperture( 1/e <sup>2</sup> ,mm)	1.00±0.05	1.20±0.05	1.00±0.05	1.20±0.05
Beam divergence, full angle (mrad)	<1.7	<1.8	<1.7	<1.8
Polarization ratio	>100:1 Horizontal±5 degree (Vertical Optional)			
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-A-DP PSU-A-FP PSU-III-OEM-97(5VDC)	
Operating temperature (°C)	0-60		10-35	
Max. Heat Dissipation of Head(W)	10W@50°C		4W@25°C	
Modulation	TTL on/off, 1Hz-1KHz, 1KHz-10KHz, 10KHz-30KHz; and Analog modulation			
Expected lifetime (hours)	10000			
Warranty	1 year			



MIL-S-1064-B	PSU-A-D	PSU-A-F	PSU-III-OEM-97
<p>100 (L) ×40 (W) ×40(H) mm<sup>3</sup>, 0.36kg</p>	<p>162 (L) × 144(W) ×70(H) mm<sup>3</sup>, 0.6kg</p>	<p>162(L) × 144(W) ×55(H) mm<sup>3</sup>, 0.5kg</p>	<p>94(L)×75(W)×49(H)mm<sup>3</sup>, 0.23kg</p>