



MIL-III-1053/1~500mW



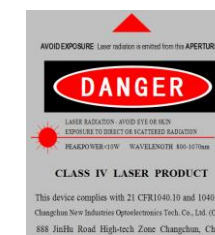
LD PUMPED ALL-SOLID-STATE  
INFRARED LASER AT 1053 nm

All solid state infrared laser at 1053 nm is made features of ultra compact, long lifetime, low cost and easy operating, which is used in scientific experiment, measurement, optical instrument, optical sensor, communication, spectrum analysis, etc.



SPECIFICATIONS

Wavelength (nm)	1053±1		
Operating mode	CW		
Output power (mW)	>1, 5, 10, 20, ... , 500		
Laser crystal	Nd:YLF		
Power stability (rms, over 4 hours)	<3%, <5%, <10%		
Transverse mode	TEM <sub>00</sub>		
M <sup>2</sup> factor	<1.5		
Beam diameter at the aperture 1/e <sup>2</sup> (mm)	~1.5		
Beam divergence, full angle (mrad)	<1.5		
Polarization ratio	>100:1, Horizontal±5 degree (Vertical Optional)		
Warm-up time (minutes)	<10		
Pointing stability after warm-up (mrad)	<0.05		
Beam height from base plate (mm)	24.8		
Operating temperature (°C)	10~35		
Power supply (90-264VAC or 5VDC)	PSU-III-LED	PSU-III-FDA	PSU-III-OEM-97
Modulation option	TTL on/off, 1Hz-1KHz, 1KHz-10KHz, 10KHz-30KHz; and Analog modulation option		
Expected lifetime (hours)	10000		
Warranty	1 year		



MxL-III-1053	PSU-III-LED	PSU-III-FDA	PSU-III-OEM-97
<p>140.5 (L) × 73 (W) × 46.2 (H) mm<sup>3</sup>, 0.6kg</p>	<p>153 (L) × 155 (W) × 92 (H) mm<sup>3</sup>, 1.5kg</p>	<p>133 (L) × 130 (W) × 62.2 (H) mm<sup>3</sup>, 1.2kg</p>	<p>94 (L) × 75 (W) × 49 (H) mm<sup>3</sup>, 0.23kg</p>