



MIL-III-1342/1~1000mW



### LD PUMPED ALL-SOLID-STATE INFRARED LASER AT 1342nm

All solid state infrared laser 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)	1342±1
Output power (mW)	>1, 5, 10, 20, ..., 1000
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)	<10
M <sup>2</sup> factor	<1. 2
Beam divergence, full angle (mrad)	<1. 5
Beam diameter at 1/e <sup>2</sup> (mm)	~1.5
Beam height from base plate (mm)	24. 8
Polarization ratio	>100:1
Pointing stability after warm-up (mrad)	<0.05
Operating temperature (°C)	10~35
Power supply (90-264VAC or 5VDC)	PSU-III-LED      PSU-III-FDA      PSU-III-OEM
Modulation option	TTL on/off, 1Hz-1KHz, 1KHz-10KHz, 10KHz-30KHz; and Analog modulation option
Expected lifetime (hours)	10000
Warranty	1 year



MxL-III-1342	PSU-III-LED	PSU-III-FDA	PSU-III-OEM-97
 140.5 (L) × 73 (W) ×46.2 (H) mm <sup>3</sup> , 0.6kg	 153 (L) ×155(W) ×92 (H) mm <sup>3</sup> , 1.5kg	 133 (L) ×130(W) ×62.2 (H) mm <sup>3</sup> , 1.2kg	 94(L)×75(W)×49(H)mm3, 0.23kg
 Front view: 140.5(L), 73(W), 46.2(H), 24.8(beam height). Side view: 59(W), 81(H), 17.5(D), 4.6-5.15(D). Bottom view: 45(L), 10.2(W), 46.2(H).	 Front view: 153(L), 155(W), 92(H). Side view: 25(D), 10(D), 153(H).	 Front view: 130(W), 62.2(H). Side view: 29(D), 133(H).	 Front view: 75(W), 49(H). Side view: 42(W), 49(H). Top view: 4xM2.5(Mounting holes), 4xØ4.