

# Opto Engine LLC

## Data sheet

Rev. 2102

MIL-III-1177/1~150mW



### LD PUMPED ALL-SOLID-STATE INFRARED LASER AT 1177nm

All solid state infrared laser at 1177nm 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)	1177±1
Output power (mW)	>1.5,10...150
Transverse mode	TEM <sub>00</sub>
Operating mode	CW
Power Stability (rms,over 4 hours)	<3%, <5%, <10%
Warm-up Time (minutes)	<10
M <sup>2</sup> factor	<1.5
Beam divergence,full angle (mrad)	<1.5
Beam Diameter at the aperture (mm)	~1.5
Beam height from base plate (mm)	24.8
Pointing stability after warm-up (mrad)	<0.05
Polarization ratio	> 100:1 (vertical)
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



MIL-III-1177	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>188 (L) × 155(W) × 92 (H) mm<sup>3</sup>, 1.5kg</p>	<p>171 (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>