

Opto Engine LLC

Data sheet

Rev. 2102

MLL-III-1085/1~1000mW



LOW NOISE INFRARED LASER AT 1085nm

All solid state low noise infrared laser at 1085 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)	1085±2	
Output power (mW)	>1, 5, 10, 20, ... , 500	>500, ... , 1000
Transverse mode	TEM ₀₀	
Operating mode	CW	
Power stability (rms, over 4 hours)	<1%, <2%, <3%	<2%, <3%, <5%
Noise of amplitude (rms, 20Hz~20MHz)	<1%	
Warm-up time (minutes)	<10	
M ² factor	<1.5	
Beam divergence, full angle (mrad)	<1.5	
Beam diameter at 1/e ² (mm)	~1.5	
Beam height from base plate (mm)	24.8	
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-97	
Expected lifetime (hours)	10000	
Warranty	1 year	



MLL-III-1085	PSU-III-LED	PSU-III-FDA	PSU-III-OEM-97
<p>140.5 (L) × 73 (W) × 46.2 (H) mm³, 0.6kg</p>	<p>188 (L) × 155(W) × 92 (H) mm³, 1.5kg</p>	<p>171 (L) × 130(W) × 62.2 (H) mm³, 1.2kg</p>	<p>94 (L) × 75(W) × 49(H) mm³, 0.23kg</p>