

MLL-III-1047/1~500mW



### LOW NOISE INFRARED LASER AT 1047 nm

All solid state low noise infrared laser at 1047 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)	1047±1	
Output power (mW)	>1, 5, 10, 20, ... , 200	>200, ... , 500
Transverse mode	Near TEM <sub>00</sub>	
Operating mode	CW	
Power stability (rms, over 4 hours)	<2%, <3%, <5%	<3%, <5%
Noise of amplitude (rms, 20Hz~20MHz)	<1%	
Warm-up time (minutes)	<10	
M <sup>2</sup> factor	<1.5	
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	
Pointing stability after warm-up (mrad)	<0.05	
Polarization ratio	>100:1 Horizontal±5 degree (Vertical Optional)	
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-1047	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>