

Opto Engine LLC

Data sheet

Rev. 2102

MLL-H-1047/500~1000mW



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, optical instrument, optical sensor, measurement, communication, spectrum analysis, etc.

SPECIFICATIONS

Wavelength (nm)	1047 ± 1
Output power (mW)	>500, 550, 600, ... ,1000
Transverse mode	Near TEM ₀₀
Operating mode	CW
Power stability (rms, over 4 hours)	<2%, <3%, <5%
Noise of amplitude (rms, 20Hz~20MHz)	<1%
Warm-up time (minutes)	<10
M ² factor	<2.0
Beam divergence, full angle (mrad)	<2.0
Beam diameter at the aperture (mm)	~3.0
Beam height from base plate (mm)	29
Polarization ratio	>100:1 Horizontal±5 degree (Vertical Optional)
Pointing stability after warm-up (mrad)	<0.05
Operating temperature (°C)	10~35
Power supply (90-264VAC)	PSU-H-LED /PSU-H-FDA/PSU-H-OEM
Expected lifetime (hours)	10000
Warranty period	1 year



MLL-H-1047	PSU-H-LED	PSU-H-FDA	PSU-H-OEM
<p>154.5(L)×77(W)×60(H) mm³, 0.9 kg</p>	<p>277 (L)×145(W)×106 (H) mm³, 2.6 kg</p>	<p>275(L)×145(W)×104(H) mm³, 2.3 kg</p>	<p>245.5 (L)×146(W)×94 (H) mm³, 2.2 kg</p>