

Opto Engine LLC

Data sheet

Rev. 0912

MDL-III-1450/1~500mW

INFRARED DIODE LASER At 1450nm

Diode infrared laser module at 1450nm, is made features of ultra compact, long lifetime, low cost and easy operating, which is used in measurement, communication, spectrum analysis, etc.



SPECIFICATIONS

Wavelength (nm)	1450±10		
Output power (mW)	>50, 100, 150, ... , 500		
Transverse mode	Near TE ₀₀		
Operating mode	CW		
Power stability (rms, over 4 hours)	<1%, <3%, <5%		
Warm-up time (minutes)	<5		
M ² factor	<20		
Beam divergence, full angle (mrad)	<3.0		
Dimensions of beam at the aperture (mm)	~5×8		
Beam height from base plate (mm)	24.8		
Polarization ratio	>50:1		
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
Expected lifetime (hours)	10000		
Warranty	1 year		
Remarks	MDLis a diode laser module, so the beam quality is not as good as the solid-state laser. The beam spot is nearly square.		



MxL-III-1450	PSU-III-LED	PSU-III-FDA	PSU-III-OEM
<p>140. 8(L)×73(W) ×46. 2(H) mm³, 0.6kg</p>	<p>154 (L) ×155(W) ×95 (H) mm³, 1.5kg</p>	<p>133 (L) ×130(W) ×65 (H) mm³, 1.2kg</p>	<p>100 (L) ×60(W) ×56 (H) mm³, 0.2kg</p>