

Opto Engine LLC

Data sheet

Rev. 1609

MRL-FN-639/1~1000mW



LD PUMPED ALL-SOLID-STATE RED LASER AT 639nm

All solid state 639nm red laser is made features of ultra compact, long lifetime, low cost and easy operating, which is widely used in measurement, spectrum analysis, and laser lighting show etc.



SPECIFICATIONS

Central wavelength (nm)	639 ± 1	
Operating mode	CW	
Output power (mW)	>1,10,20...1000	
Power stability (rms, over 4 hours)	<1%, <3%, 5%	
Transverse mode	TEM ₀₀	
M ² factor	<1.2	
Beam diameter at the aperture (1/e ² , mm)	<1.0	
Beam divergence, full angle (mrad)	<1.5	
Polarization ratio	> 100:1 Horizontal ± 5 degree (Vertical Optional)	
Warm-up time (minutes)	<10	
Pointing stability after warm-up (mrad)	<0.05	
Beam height from base plate (mm)	27.4	
Operating temperature (°C)	10~35	
Power supply (90-264VAC)	PSU-H-LED	PSU-H-FDA
Expected lifetime (hours)	10000	
Warranty	1 year	



Note: The laser head needs to be used on a heat sink with good heat dissipation.

MXL-FN-639	PSU-H-LED	PSU-H-FDA
<p>197(L)×70(W)×50(H) mm³, 2.0 kg</p>	<p>277 (L) ×145(W) ×106 (H) mm³, 2.6 kg</p>	<p>236(L) ×145(W) ×104(H) mm³, 2.3 kg</p>