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DATA SHEET

LD PUMPED ALL-SOLID-STATE LOW NOISE BLUE LASER AT 457nm

All-solid-state 457nm low noise laser is made features of ultra-compact, long lifetime and easy operating, which is used in fluorescence sensors, Raman spectrum, laser printing, holography, laser display, submarine communication, biomedicine, laser lighting show, etc.



Model: **MLL-F-457/1~1000mW**

Wavelength (nm)	457 ± 1nm	
Output power (mW)	>1, 10, 20, 30, ..., 500	>500, 550, 600, ... , 1000
Transverse mode	Near TEM ₀₀	Near TEM ₀₁ (Near TEM ₀₀ on request)
Operating mode	CW	
Power stability (rms, over 4 hours)	<3%, <5%, <10%	
Warm-up time (minutes)	<10	
M ² factor	<2.0	
Beam divergence, full angle (mrad)	<1.5	
Beam diameter at the aperture (mm)	~3.0	
Beam height from base plate (mm)	45	
Polarization ratio	>100:1	
Noise of amplitude (rms, 20Hz-20MHz)	<3%	
Pointing stability after warm-up (mrad)	<0.05	
Operating temperature (°C)	10~35	
Power supply (90-264VAC)	PSU-H-FDA	PSU-H-OEM
Expected lifetime (hours)	10,000	
Warranty period	1 year	

MxL-F-457	Laser Head Dimensions	PSU-H-FDA	PSU-H-OEM
	<p>211(L) × 88(W) × 74(H) mm³, 1.6kg</p>	<p>275 (L) × 145(W) × 104 (H) mm³, 2.3kg</p>	<p>245.5 (L) × 146(W) × 94 (H) mm³, 2.2kg</p>