

MLL-F-457/1~1000mW

## LD PUMPED ALL-SOLID-STATE LOW NOISE BLUE LASER

All solid state 457nm low noise laser is made features of ultra compact, long lifetime, low cost and easy operating, which is used in fluorescence sensors, Raman spectrum, holography, laser printing, interference, holography, laser printing, chip inspection, physics experiment, etc.



### SPECIFICATIONS

Wavelength (nm)	457 ± 1	
Operating mode	CW	
Output power (mW)	>1, 10, 20, 30, ..., 400	>400, 550, 600, ..., 1000
Transverse mode	Near TEM <sub>00</sub>	Near TEM <sub>01</sub> , (Near TEM <sub>00</sub> on request)
Power stability (rms, over 4 hours)	<3%, <5%, <10%	
Noise of amplitude (rms, 20Hz~20MHz)	<3%	
M <sup>2</sup> factor	<2.0	
Beam diameter at the aperture( 1/e <sup>2</sup> ,mm)	~3.0	
Beam divergence, full angle (mrad)	<1.5	
Polarization ratio	>100:1	
Warm-up time (minutes)	<10	
Pointing stability after warm-up (mrad)	<0.05	
Beam height from base plate (mm)	45	
Operating temperature (°C)	10~35	
Power supply (90-264VAC)	PSU-H-FDA	PSU-H-OEM
Expected lifetime (hours)	10000	
Warranty period	1 year	



MxL-F-457	PSU-H-FDA	PSU-H-OEM
<p>211 (L) × 88(W) × 74(H) mm<sup>3</sup>, 1.6 kg</p>	<p>236(L) × 145(W) × 104(H) mm<sup>3</sup>, 2.3 kg</p>	<p>238 (L) × 146(W) × 94 (H) mm<sup>3</sup>, 2.2 kg</p>