

# Opto Engine LLC

## Data sheet

Rev. 0912

MBL-H-480/1~30mW

### LD PUMPED ALL-SOLID-STATE BLUE LASER AT 480 nm

All solid state 480 nm blue laser is made features of ultra compact, long lifetime, low cost and easy operating, which is used in fluorescence sensors, Raman spectrum, laser printing, holography, laser display, submarine communication, biomedicine, laser lighting show, etc.



### SPECIFICATIONS

Wavelength (nm)	480 ± 1		
Output power (mW)	>1, 2, 3, 5, ... , 30		
Transverse mode	Near TEM <sub>00</sub>		
Operating mode	CW		
Power stability (rms, over 4 hours)	<10%		
Warm-up time (minutes)	<10		
M <sup>2</sup> factor	<3.0		
Beam divergence, full angle (mrad)	<1.5		
Beam diameter at the aperture (mm)	~3.0		
Beam height from base plate (mm)	29		
Polarization ratio	>100:1		
Noise of amplitude (rms, 1~20MHz)	~30%		
Pointing stability after warm-up (mrad)	<0.05		
Operating temperature (°C)	10~35		
Power supply (90-264VAC or 5V DC)	PSU-H-LED	PSU-H-FDA	PSU-H-OEM
Expected lifetime (hours)	10000		
Warranty period	1 year		



MxL-H-480	PSU-H-LED	PSU-H-FDA	PSU-H-OEM
155(L)×77(W)×60(H) mm <sup>3</sup> , 0.9 kg	240 (L) ×146(W) ×108 (H) mm <sup>3</sup> , 2.6 kg	238 (L) ×146(W) ×102 (H) mm <sup>3</sup> , 2.3 kg	238 (L) ×146(W) ×94 (H) mm <sup>3</sup> , 2.2 kg