



MBL-S-473/1~100mW



**LD PUMPED ALL-SOLID-STATE  
BLUE LASER**

All solid state 473nm blue laser is made features of ultra compact, small size, wide operating temperature, good sealing, long lifetime, cost-effectiveness and easy operating, working under the pressure of 0.02kPa, which is used in fluorescence sensors, Raman spectrum, laser printing, holography, laser display, submarine communication, biomedicine, etc.



**SPECIFICATIONS**

Model	MBL-S-473-A(Harsh condition)	MBL-S-473-B (Normal condition)		
Central wavelength (nm)	473±1			
Operating mode	CW			
Output power (mW)	>1,5,10,20,...,100			
Power stability (rms, over 4 hours)	<3%,<5%			
Transverse mode	TEM <sub>00</sub>			
M <sup>2</sup> factor	<1.2			
Beam diameter at the aperture( 1/e <sup>2</sup> ,mm)	0.7±0.05			
Beam divergence, full angle (mrad)	<1.5			
Polarization ratio	>100:1 Vertical±5 degree (Horizontal Optional)			
Pointing stability after warm-up (mrad)	<0.05			
Pointing stability Over Temp. (μrad/ °C)	<8			
Warm-up time (minutes)	<5			
Beam height from base plate (mm)	19			
Power Consumption(W)	<30			
Shock Tolerance(6ms)	7g laterally,15g vertically			
IP Rating	IP67		IP65	
Power supply(90-264VAC)	PSU-H-FDA	PSU-A-DP	PSU-A-FP	PSU-III-OEM-97 (5VDC)
Operating temperature (°C)	0-60		10-35	
Max. Heat Dissipation of Head(W)	10W@50°C		4W@25°C	
Modulation	TTL on/off, 1Hz-1KHz, 1KHz-10KHz, 10KHz-30KHz; and Analog modulation option			
Expected lifetime (hours)	10000			
Warranty	1 year			



MxL-S-473	PSU-A-D	PSU-A-F	PSU-III-OEM-97
<p>100 (L) ×40 (W) ×40(H) mm<sup>3</sup>, 0.36kg</p>	<p>162 (L) ×144(W) ×70(H) mm<sup>3</sup>, 0.6kg</p>	<p>162(L) ×144(W) ×55(H) mm<sup>3</sup>, 0.5kg</p>	<p>94(L) ×75(W) ×49(H)mm<sup>3</sup>, 0.23kg</p>