



MBL-S-473/1~100mW



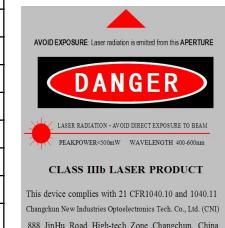
LD PUMPED ALL-SOLID-STATE BLUE LASER

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,...,50	>50, ..., 100
Power stability (rms, over 4 hours)	<1%, <2%, <3%	<2%, <3%, <5%
Transverse mode	TEM ₀₀	
M ² factor	<1.2	
Beam diameter at the aperture(1/e ² ,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	



This device complies with 21 CFR 1040.10 and 1040.11
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MBL-S-473-B	PSU-A-D	PSU-A-F	PSU-III-OEM-97
 100 (L) × 40 (W) × 40 (H) mm ³ , 0.36kg	 162 (L) × 144 (W) × 70 (H) mm ³ , 0.6kg	 162 (L) × 144 (W) × 55 (H) mm ³ , 0.5kg	 94 (L) × 75 (W) × 49 (H) mm ³ , 0.23kg
 Front view: 100(L) x 40(W) x 40(H) mm ³ . Top view: 40(L) x 32(W) x 40(H) mm ³ . Side view: 100(L) x 30(W) x 94(H) mm ³ .	 Front view: 162(L) x 144(W) x 70(H) mm ³ . Top view: 144(L) x 70(W) x 100(H) mm ³ .	 Front view: 162(L) x 144(W) x 55(H) mm ³ . Top view: 144(L) x 55(W) x 75(H) mm ³ .	 Front view: 94(L) x 75(W) x 49(H) mm ³ . Top view: 75(L) x 42(W) x 49(H) mm ³ . Bottom view: PCB with mounting holes (4xM2.5).