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DATA SHEET

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

All-solid-state 457nm blue laser is made features of ultra-compact, long lifetime, low cost and easy operating, which is used in DNA sequencing, flow cytometry, cell sorting, optical instrument, spectrum analysis, laser printing, chip inspection and physics experiment etc.



Model: MBL-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			
Operating mode	CW				
Power stability (rms, over 4 hours)	<1%, <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				
Pointing stability after warm-up (mrad)	<0.05				
Operating temperature (°C)	10~35				
Power supply (90-264VAC)	PSU-H-LED	PSU-H-FDA	PSU-H-OEM		
Modulation option	TTL on/off, 1-1KHz, 1K-10KHz, 10K-30KHz; Analog modulation option				
Expected lifetime (hours)	10,000				
Warranty period	1 year				

MBL-F-457	PSU-H-LED	PSU-H-FDA	PSU-H-OEM
 211(L) × 88(W) × 74(H) mm³, 1.6kg	 277(L) × 145(W) × 106(H) mm³, 2.6 kg	 236(L) × 145(W) × 104(H) mm³, 2.3kg	 238(L) × 146(W) × 94 (H) mm³, 2.2kg