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DATA SHEET

BLUE DIODE LASER AT 450nm

Diode laser module at 450nm is made features of ultra-compact, long lifetime, low cost and easy operating, which is widely used in scientific research, laser pointing, show and RGB mixed laser systems applications

Model: MDL-F-450 / 1000~2000mW

Model	MDL-F-450 (H)	MDL-F-450 (V)
Wavelength (nm)	450 ± 5nm	
Output power (mW)	>1000, 1500, ..., 2000	
Transverse mode	Near TEM ₀₀	
Operating mode	CW	
Power stability (rms, over 4 hours)	<1%, <3%, <5%	
Warm-up time (minutes)	<5	
M ² factor	<5	
Beam divergence, full angle (mrad)	<1.5	
Dimensions of beam at the aperture (mm)	~4 x 4	
Pointing stability after warm-up (mrad)	<0.05	
Beam height from base plate (mm)	45	
Polarization direction	Horizontal	Vertical
Operating temperature (°C)	10~35	
Power supply (90-264VAC)	PSU-H-LED	PSU-H-FDA
Modulation option	TTL/Analog, 1Hz-5KHz, 1Hz-10KHz, 1Hz-30KHz, and TTL on/off	
Expected lifetime (hours)	10,000	
Warranty period	1 year	



MxL-F-450	Dimensions	PSU-H-LED	PSU-H-FDA
	<p>211(L)×88(W)×74(H) mm³, 1.6kg</p>	<p>277(L)×145(W)×106(H) mm³, 2.6kg</p>	<p>275(L)×145(W)×104(H) mm³, 2.3kg</p>