

DATA SHEET

BLUE DIODE LASER AT 442nm

Blue laser module at 442nm is made features of ultra-compact, long lifetime, low cost and easy operating, which is widely used in measurement, communication, spectrum analysis, etc.



Model: MDL-III-442/1~50mW

Wavelength (nm)	442 ± 5nm	
Output Power (mW)	>1, 10, 20, ..., 50	
Transverse Mode	Near TEM ₀₀	
Operating Mode	CW	
Power stability (rms, over 4 hours)	<1%, <3%, <5%	
Warm-up time (minutes)	<5	
Beam divergence, full angle (mrad)	<1. 0	
Beam diameter at the aperture (mm)	<3.5	
Beam height from base plate (mm)	24.8	
Pointing stability after warm-up (mrad)	<0.05	
Operating temperature (°C)	10~35	
Power supply (90-264VAC)	PSU-III-LED	PSU-III-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-III-442	Dimensions	PSU-III-LED	PSU-III-FDA
	139(L) × 73(W) × 46. 2(H) mm³, 0.6kg	154 (L) × 155(W) × 95 (H) mm³, 1.5kg	133 (L) × 130(W) × 65 (H) mm³, 1.2kg