

MDL-III-442/1~80mW

BLUE DIODE LASER AT 442 nm

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



SPECIFICATIONS

Wavelength (nm)	442 ±5	
Operating mode	CW	
Output power (mW)	>1, 10, 20, ..., 80	
Power stability (rms, over 4 hours)	<1%, <3%, <5%	
Transverse mode	Near TEM ₀₀	
M ² factor	<1.5 (<1.2, optional)	
Beam diameter at the aperture (1/e ² .mm)	~2.5 (~1.0, optional)	
Beam divergence, full angle (mrad)	<1	
Polarization ratio	>50:1 (>100:1, optional) Horizontal ±5 degree (Vertical Optional)	
Warm-up time (minutes)	<5	
Pointing stability after warm-up (mrad)	<0.05	
Beam height from base plate (mm)	24.8	
Operating temperature (°C)	10~35	
Power supply (85-264VAC)	PSU-III-LED	PSU-III-FDA
TTL / Analog modulation	TTL or Analog with 1Hz-1KHz 1KHz-10KHz, 10KHz-30KHz optional	
Expected lifetime (hours)	10000	
Warranty	1 year	

