

MLL-III-454L/1~80mW



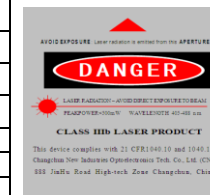
LOW NOISE BLUE DIODE LASER AT 454 nm

Low noise blue diode laser module at 454nm is made features of ultra compact, long lifetime, cost-effectiveness and easy operating, which is used in scientific research, measurement, communication, spectrum analysis, etc.



SPECIFICATIONS

Wavelength (nm)	454±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	
Noise of amplitude(rms,20Hz~20MHz)	<1%	
M ² factor	<1.5	
Beam diameter at the aperture (1/e ² ,mm)	~3.5	
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 (Frequency for 1Hz-30kHz)
	100-240VAC	PSU-A-D (Frequency for 30kHz -100kHz)
TTL / Analog modulation	TTL or Analog with 1Hz-1kHz 1kHz-10kHz, 10kHz-30kHz, 30kHz-100kHz optional	
Expected lifetime (hours)	10000	
Warranty	1 year	



MxL-III-454L	PSU-III-LED	PSU-III-FDA	PSU-A-D
<p style="text-align: center;">143.5(L)×73(W)×46.2(H) mm³, 0.7kg</p>	<p style="text-align: center;">188.6 (L)×155(W)×92 (H) mm³, 1.5kg</p>	<p style="text-align: center;">171(L)×130(W)×62.2 (H) mm³, 1.2kg</p>	<p style="text-align: center;">162(L)×144(W)×70 (H) mm³, 1.0kg</p>