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DATA SHEET

LOW NOISE VIOLET DIODE LASER AT 405nm

Low noise violet diode laser module at 405nm is made features of ultra-compact, long lifetime, cost-effective and easy operating, which is used in measurement, communication, spectrum analysis, etc.



Model: MLL-III-405 / 1~500mW

Wavelength (nm)	405 ± 5nm	
Output Power (mW)	>1, 2, 50, ..., 500	
Transverse mode	Near TEM ₀₀	
Operating mode	CW	
Power stability (rms, over 4 hours)	<1%, <3%, <5%, optional	
Noise of amplitude (rms, 20Hz~20MHz)	<1%	
Warm-up time (minutes)	<5	
M ² factor	<1.5 (<1.2, optional)	
Beam divergence, full angle (mrad)	<0.5	
Pointing stability after warm-up (mrad)	<0.05	
Beam diameter at the aperture (1/e ² , mm)	~2.5 (~1.0, optional)	
Polarization ratio	>50:1 (>100:1, optional)	
Beam height from base plate (mm)	24.8	
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-405	Dimensions	PSU-III-LED	PSU-III-FDA
	<p>143.5(L)×73(W)×46.2(H) mm³, 0.7kg</p>	<p>188.6(L)×155(W)×92(H) mm³, 1.5kg</p>	<p>171(L)×130(W)×62.2(H) mm³, 1.2kg</p>