

DATA SHEET

LOW NOISE RED DIODE LASER AT 685nm

Low noise red diode 685nm laser is made features of ultra-compact, long lifetime, low cost and easy operating, which is widely used in measurement, spectrum analysis, laser lighting show, etc.

Wavelength (nm)	685 ±5nm		
Output Power (mW)	>5, 10, 15, 20		
Transverse Mode	Near TEM ₀₀		
Operating Mode	CW		
Power stability (rms, over 4 hours)	<1%, <3%, <5%		
Noise of amplitude (rms, 1~20MHz)	<1%		
Warm-up time (minutes)	<5		
M ² factor	<20		
Beam divergence, full angle (mrad)	<0.5		
Dimensions of beam at aperture (mm)	~4.0		
Beam height from base plate (mm)	24.8		
Polarization ratio	>50:1		
Pointing stability after warm-up (mrad)	<0.05		
Operating temperature (°C)	10~35		
Power supply (90-264VAC or 5VDC)	PSU-III-FDA	PSU-III-LED	PSU-III-OEM
Expected lifetime (hours)	10,000		
Warranty period	1 year		



MxL-III-685	PSU-III-FDA	PSU-III-LED	PSU-III-OEM
<p>139(L) ×73(W) ×46.2(H) mm³, 0.6kg</p>	<p>133 (L) ×130(W) ×65 (H) mm³, 1.2kg</p>	<p>154 (L) ×155(W) ×95 (H) mm³, 1.5 kg</p>	<p>100 (L) ×62(W) ×56 (H) mm³, 0.2 kg</p>