

## DATA SHEET

### RED DIODE LASER AT 685nm

Diode red laser 685nm 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 <sub>00</sub>		
Operating Mode	CW		
Power stability (rms, over 4 hours)	<1%, <3%, <5%		
Warm-up time (minutes)	<5		
M <sup>2</sup> 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
Modulation	TTL/Analog 1Hz-5KHz, 1Hz-10KHz, 1Hz-30KHz, and TTL on/off		
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) mm<sup>3</sup>, 0.6kg</p>	<p>133 (L) × 130(W) × 65 (H) mm<sup>3</sup>, 1.2kg</p>	<p>154 (L) × 155(W) × 95 (H) mm<sup>3</sup>, 1.5 kg</p>	<p>100 (L) × 62(W) × 56 (H) mm<sup>3</sup>, 0.2 kg</p>