



MLL-III-642/1~200mW



**LOW NOISE RED DIODE
LASER AT 642nm**

Low noise red diode laser at 642nm is made features of ultra compact, long lifetime, cost-effectiveness and easy operating, which is widely used in measurement, spectrum analysis, laser lighting show, etc.



SPECIFICATIONS

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| Wavelength (nm) | 642±5 |
| Operating mode | CW |
| Output power (mW) | >1,10,20,..., 200 |
| 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 (<1.2, optional) |
| Beam diameter at the aperture (1/e ² ,mm) | ~3.0 (~1.2, optional) |
| Beam divergence, full angle (mrad) | <1.0 |
| 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 |



| MxL-III-642 | 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> |