

MLL-III-442/1~80mW

LOW NOISE BLUE DIODE LASER AT 442nm

Low noise blue diode laser module at 442 nm is made features of ultra compact, long lifetime, cost-effectiveness and easy operating, which is used in measurement, communication, spectrum analysis,



SPECIFICATIONS

| | | |
|--|---|-------------|
| Wavelength (nm) | 442±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 (<1.2, optional) | |
| Beam diameter at the aperture (1/e ² ,mm) | ~2.5 (~1.0, optional) | |
| 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 |
| TTL / Analog modulation | TTL or Analog with 1Hz-1KHz 1KHz-10KHz, 10KHz-30KHz optional | |
| Expected lifetime (hours) | 10000 | |
| Warranty | 1 year | |



| MxL-III-442 | 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> |