



MLL-III-1342/1~1000mW

**LOW NOISE INFRARED LASER  
AT 1342 nm**

All solid state low noise infrared laser at 1342 nm is made features of ultra compact, long lifetime, low cost and easy operating, which is used in scientific experiment, measurement, optical instrument, optical sensor, communication, spectrum analysis, etc.



**SPECIFICATIONS**

|   |                           |             |             |
|---|---------------------------|-------------|-------------|
| Wavelength (nm)                         | 1342 ± 1                  |             |             |
| Output power (mW)                       | >1, 5, 10, 20, ... , 1000 |             |             |
| Laser crystal                           | Nd:YVO <sub>4</sub>       |             |             |
| Transverse mode                         | TEM <sub>00</sub>         |             |             |
| Operating mode                          | CW                        |             |             |
| Power stability (rms, over 4 hours)     | <1%, <3%, <5%             |             |             |
| Noise of amplitude (rms, 20Hz~20MHz)    | <1%                       |             |             |
| Warm-up time (minutes)                  | <10                       |             |             |
| M <sup>2</sup> factor                   | <1.2                      |             |             |
| Beam divergence, full angle (mrad)      | <1.5                      |             |             |
| Beam diameter at 1/e <sup>2</sup> (mm)  | ~1.5                      |             |             |
| Beam height from base plate (mm)        | 24.8                      |             |             |
| Polarization ratio                      | >100:1                    |             |             |
| Pointing stability after warm-up (mrad) | <0.05                     |             |             |
| Operating temperature (°C)              | 10~35                     |             |             |
| Power supply (90-264VAC or 5VDC)        | PSU-III-LED               | PSU-III-FDA | PSU-III-OEM |
| Expected lifetime (hours)               | 10000                     |             |             |
| Warranty                                | 1 year                    |             |             |



| MxL-III-1342  | PSU-III-LED  | PSU-III-FDA  | PSU-III-OEM   |
|---|--|--|---|
| <p>140.8(L)×73(W)×46.2(H) mm<sup>3</sup>, 0.6kg</p> | <p>153 (L) ×155(W) ×92 (H) mm<sup>3</sup>, 1.5kg</p> | <p>133 (L) ×130(W) ×65 (H) mm<sup>3</sup>, 1.2kg</p> | <p>100 (L) ×62(W) ×56 (H) mm<sup>3</sup>, 0.2kg</p> |
|   |  |  |   |