

MLL-III-450/1~1000mW

### LOW NOISE BLUE DIODE LASER AT 450 nm

Low noise diode laser module at 450 nm is made features of ultra compact, long lifetime, low cost and easy operating, which is used in measurement, communication, spectrum analysis, etc.



#### SPECIFICATIONS

|   |                        |                     |
|---|------------------------|---------------------|
| Wavelength (nm)                         | 450±5                  |                     |
| Output power (mW)                       | >1, 10, 20, ...,500    | >500, 600, ...,1000 |
| Transverse mode                         | Near TEM <sub>00</sub> |                     |
| Operating mode                          | CW                     |                     |
| Power stability (rms, over 4 hours)     | <1%, <3%, <5%          |                     |
| Noise of amplitude(rms,1~20MHz)         | <1%                    |                     |
| Warm-up time (minutes)                  | <5                     |                     |
| Beam divergence, full angle (mrad)      | <1.5                   | <3.0×0.5            |
| Beam diameter at the aperture (mm)      | ~5                     | ~2×4                |
| Beam height from base plate (mm)        | 24.8                   |                     |
| Pointing stability after warm-up (mrad) | <0.05                  |                     |
| Operating temperature (°C)              | 10~35                  |                     |
| Power supply (90-264VAC)                | PSU-III-LED            | PSU-III-FDA         |
| Expected lifetime (hours)               | 10000                  |                     |
| Warranty period                         | 1 year                 |                     |



| MxL-III-450   | PSU-III-LED  | PSU-III-FDA   |
|---|--|---|
|  <p>139(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> |
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