

## DATA SHEET

### LD PUMPED ALL-SOLID-STATE BLUE LASER at 491nm

All solid state 491nm blue laser is made features of ultra-compact, long lifetime, low cost and easy operating, which is used in fluorescence sensors, Raman spectrum, laser printing, holography, laser display, submarine communication, biomedicine, laser lighting show, etc.



Model: **MBL-H-491/1~2mW**

|   |                         |           |           |
|---|-------------------------|-----------|-----------|
| Wavelength ( nm )                       | 491 ± 1nm               |           |           |
| Output Power ( mW )                     | >1, 2                   |           |           |
| Transverse Mode                         | Near TEM <sub>00</sub>  |           |           |
| Operating Mode                          | CW                      |           |           |
| Power stability (rms, over 4 hours)     | <10%                    |           |           |
| Warm-up time (minutes)                  | <10                     |           |           |
| M <sup>2</sup> factor                   | <1.2                    |           |           |
| Beam divergence, full angle (mrad)      | <1.5                    |           |           |
| Beam diameter at the aperture (mm)      | ~3.0                    |           |           |
| Beam height from base plate (mm)        | 29                      |           |           |
| Polarization ratio                      | >100:1 (0 or 90 degree) |           |           |
| Pointing stability after warm-up (mrad) | <0.05                   |           |           |
| Operating temperature ( °C )            | 10~35                   |           |           |
| Power supply (90-264VAC)                | PSU-H-LED               | PSU-H-FDA | PSU-H-OEM |
| Expected lifetime (hours)               | 10,000                  |           |           |
| Warranty period                         | 1 year                  |           |           |

| MxL-H-491  | PSU-H-LED   | PSU-H-FDA  | PSU-H-OEM   |
|--|---|--|---|
| <p><b>155(L) × 77(W) × 60(H) mm<sup>3</sup>, 0.9kg</b></p> | <p><b>268 (L) × 145(W) × 106 (H) mm<sup>3</sup>, 2.6 kg</b></p> | <p><b>238 (L) × 146(W) × 102 (H) mm<sup>3</sup>, 2.3kg</b></p> | <p><b>238 (L) × 146(W) × 94 (H) mm<sup>3</sup>, 2.2kg</b></p> |