

### MSL-S-532/1~50mW

### SINGLE LONGITUDINAL MODE GREEN LASER AT 532 nm

All solid state single longitudinal mode green laser at 532 nm is made features of ultra compact, small size, wide operating temperature, good sealing, long lifetime, low cost and easy operating, working under the pressure of 0.02kPa, which is used in DNA sequencing, flow cytometry, cell sorting, optical instrument, spectrum analysis, interference, measurement, holography, physics experiment, etc.



#### SPECIFICATIONS

| Model                                                | MSL-S-532-A (Harsh condition)                  | MSL-S-532-B (Normal condition) |
|------------------------------------------------------|------------------------------------------------|--------------------------------|
| Wavelength (nm)                                      | 532±1                                          |                                |
| Operating mode                                       | CW                                             |                                |
| Output power (mW)                                    | >1,5,10,20,...,50                              |                                |
| Power stability (rms, over 4 hours)                  | <1%, <3%, <5%                                  |                                |
| Transverse mode                                      | TEM <sub>00</sub>                              |                                |
| Longitudinal mode                                    | Single                                         |                                |
| Spectral linewidth (nm)                              | <0.00001                                       |                                |
| Coherent length (m)                                  | >50                                            |                                |
| Noise of amplitude (rms, 20Hz~20MHz)                 | <0.5%                                          |                                |
| M <sup>2</sup> factor                                | <1.2                                           |                                |
| Beam diameter at the aperture( 1/e <sup>2</sup> ,mm) | 0.7±0.05                                       |                                |
| Beam divergence, full angle (mrad)                   | <1.5                                           |                                |
| Polarization ratio                                   | >100:1 Horizontal±5 degree (Vertical Optional) |                                |
| Pointing stability after warm-up (mrad)              | <0.05                                          |                                |
| Pointing stability Over Temp. (μrad/°C)              | <8                                             |                                |
| Warm-up time (minutes)                               | <5                                             |                                |
| Beam height from base plate (mm)                     | 19                                             |                                |
| Power Consumption(W)                                 | <30                                            |                                |
| Shock Tolerance(6ms)                                 | 7g laterally, 15g vertically                   |                                |
| IP Rating                                            | IP67                                           | IP65                           |
| Power supply(90-264VAC)                              | PSU-H-FDA                                      | PSU-III-FDA                    |
| Operating temperature (°C)                           | 0-60                                           | 10-35                          |
| Max. Heat Dissipation of Head(W)                     | 10W@50°C                                       | 4W@25°C                        |
| Modulation                                           | Modulation isn't available.                    |                                |
| Expected lifetime (hours)                            | 10000                                          |                                |
| Warranty                                             | 1 year                                         |                                |



| MxL-S-532                                               | PSU-III-LED                                            | PSU-III-FDA                                              |
|---------------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|
| <p>100 (L) × 50 (W) × 38 (H) mm<sup>3</sup>, 0.41kg</p> | <p>236(L) × 145(W) × 104 (H) mm<sup>3</sup>, 2.3kg</p> | <p>133 (L) × 130(W) × 62.2 (H) mm<sup>3</sup>, 1.2kg</p> |