

# Opto Engine LLC

## Data sheet

Rev. 0912

MIL-III-1122/1~300mW

### LD PUMPED ALL-SOLID-STATE INFRARED LASER AT 1122nm

All solid state infrared laser at 1122nm 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)                         | 1122±3   |             |             |
| Output power (mW)                       | >1, 5, 10...300                                    |             |             |
| Transverse mode                         | TEM <sub>00</sub>                                  |             |             |
| Operating mode                          | CW   |             |             |
| Power stability (rms, over 4 hours)     | <3%, <5%, <10%                                     |             |             |
| Warm-up time (minutes)                  | <10  |             |             |
| M <sup>2</sup> factor                   | <1.5   |             |             |
| Beam divergence, full angle (mrad)      | <1.5   |             |             |
| Beam diameter at the aperture (mm)      | ~2.0   |             |             |
| 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 or 5VDC)        | PSU-III-LED  | PSU-III-FDA | PSU-III-OEM |
| TTL/ Analog modulation                  | Optional, 2kHz or higher (on request, up to 30kHz) |             |             |
| Expected lifetime (hours)               | 10000  |             |             |
| Warranty                                | 1 year   |             |             |



| MxL-III-1122  | 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>154 (L) ×155(W) ×95 (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) ×60(W) ×56 (H) mm<sup>3</sup>, 0.2kg</p> |
|   |  |  |   |