

MIL-H-1047/500~1000mW



**LD PUMPED ALL-SOLID-STATE  
INFRARED LASER AT 1047 nm**

All solid state infrared laser at 1047nm is made features of ultra compact, long lifetime, cost-effectiveness and easy operating, which is used in scientific experiment, optical instrument, optical sensor, measurement, communication, spectrum analysis, etc.



**SPECIFICATIONS**

|   |   |           |
|---|---|-----------|
| Central wavelength (nm)                             | 1047±1  |           |
| Operating mode                                      | CW  |           |
| Output power (mW)                                   | >500, 550, 600, ... ,1000   |           |
| Laser crystal                                       | Nd:YLF  |           |
| Power stability (rms, over 4 hours)                 | <3%, <5%, <10%  |           |
| Transverse mode                                     | Near TEM <sub>00</sub>  |           |
| M <sup>2</sup> factor                               | <2.0  |           |
| Beam diameter at the aperture 1/e <sup>2</sup> (mm) | ~3.0  |           |
| Beam divergence, full angle (mrad)                  | <2.0  |           |
| Polarization ratio                                  | >100:1  |           |
| Warm-up time (minutes)                              | <10   |           |
| Pointing stability after warm-up (mrad)             | <0.05   |           |
| Beam height from base plate (mm)                    | 29  |           |
| Operating temperature (°C)                          | 10~35   |           |
| Power supply (90-264VAC)                            | PSU-H-LED   | PSU-H-FDA |
| Modulation option                                   | TTL on/off, 1Hz-1KHz, 1KHz-10KHz, 10KHz-30KHz; and Analog modulation option |           |
| Expected lifetime (hours)                           | 10000   |           |
| Warranty period                                     | 1 year  |           |



| MxL-H-1047   | PSU-H-LED  | PSU-H-FDA  |
|--|--|--|
| <p>154.5(L)×77(W)×60(H) mm<sup>3</sup>, 0.9 kg</p> | <p>277 (L) ×145(W) ×106 (H) mm<sup>3</sup>, 2.6 kg</p> | <p>236(L) ×145(W) ×104(H) mm<sup>3</sup>, 2.3 kg</p> |