

MDL-H-1940/1~800mW

### INFRARED DIODE LASER AT 1940nm

Diode infrared laser module at 1940nm 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)                         | 1940 ± 20   |           |           |
| Output power (mW)                       | >1, 50, 100, ... , 800                                    |           |           |
| Transverse mode                         | Near TE <sub>00</sub>                                     |           |           |
| Operating mode                          | CW  |           |           |
| Power stability (rms, over 4 hours)     | <1%, <3%, <5%   |           |           |
| Warm-up time (minutes)                  | <5  |           |           |
| M <sup>2</sup> factor                   | <20   |           |           |
| Beam divergence, full angle (mrad)      | <3.0  |           |           |
| Beam diameter at the aperture (mm)      | 5~8   |           |           |
| Beam height from base plate (mm)        | 29  |           |           |
| Polarization ratio                      | >50:1   |           |           |
| 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 |
| Modulation option                       | TTL/Analog 1Hz-5KHz, 1Hz-10KHz, 1Hz-30KHz, and TTL on/off |           |           |
| Expected lifetime (hours)               | 10000   |           |           |
| Warranty period                         | 1 year  |           |           |



| MxL-H-1940  | PSU-H-LED  | PSU-H-FDA  | PSU-H-OEM   |
|---|--|--|---|
| <p>153(L)×77(W) ×60(H) mm<sup>3</sup>, 0.9 kg</p> | <p>268 (L) ×145(W) ×106 (H) mm<sup>3</sup>, 2.6 kg</p> | <p>238 (L) ×146(W) ×102 (H) mm<sup>3</sup>, 2.3 kg</p> | <p>238 (L) ×146(W) ×94 (H) mm<sup>3</sup>, 2.2 kg</p> |
|   |  |  |   |