



MLL-III-808L/1~100mW



LOW NOISE INFRARED DIODE LASER AT 808nm

It features ultra compact design, long lifetime, cost-effectiveness and easy operation. They are used in measurement, communication, spectrum analysis, etc.



SPECIFICATIONS

|  |  |
|--|--|
| Central wavelength (nm)                                | 808±10   |
| Operating mode   | CW   |
| Output power (mW)                                      | >1, 10, 20, ..., 100   |
| Power stability (rms, over 4 hours)                    | <3%, <2%, <1%, <0.5%   |
| Transverse mode  | Near TEM <sub>00</sub>   |
| Noise of amplitude(rms,20Hz~20MHz)                     | <1%  |
| M <sup>2</sup> factor                                  | ~1.5 (~1.2, optional)  |
| Beam diameter at the aperture ((1/e <sup>2</sup> ),mm) | ~3.5 (~1.2, optional)  |
| Beam divergence, full angle (mrad)                     | <1.0   |
| Polarization ratio                                     | >50:1 (>100:1, optional)<br>Horizontal±5 degree (Vertical Optional)  |
| Warm-up time (minutes)                                 | <5   |
| Pointing stability after warm-up (mrad)                | <0.05  |
| Beam height from base plate (mm)                       | 24.8   |
| Operating temperature (°C)                             | 10~35  |
| Power supply   | 85-264VAC PSU-III-LED/ PSU-III-FDA (Frequency for 1Hz-30kHz)<br>100-240VAC PSU-A-D (Frequency for 30kHz -100kHz) |
| Modulation optional                                    | TTL on/off, 1Hz-1kHz, 1kHz-10kHz, 10kHz-30kHz, 30kHz-100kHz;<br>and Analog modulation optional                   |
| Expected lifetime (hours)                              | 10000  |
| Warranty   | 1 year   |



| MLL-III-808L  | PSU-III-LED  | PSU-III-FDA   | PSU-A-D   |
|---|--|---|---|
| <p>143.5(L)×73(W)×46.2(H) mm<sup>3</sup>, 0.7kg</p> | <p>188.6 (L) ×155(W) ×92 (H) mm<sup>3</sup>, 1.5kg</p> | <p>171(L) ×130(W) ×62.2 (H) mm<sup>3</sup>, 1.2kg</p> | <p>162(L) ×144(W) ×70 (H) mm<sup>3</sup>, 1.0kg</p> |