



**MDL-III-830 /1~120mW**

## INFRARED DIODE LASER AT 830nm

Infrared diode laser at 830nm is made features of round spot, long lifetime, low cost and easy operating, which is widely used in measurement, spectrum analysis, etc.



### SPECIFICATIONS

|   |   |             |             |
|---|---|-------------|-------------|
| Wavelength (nm)                         | 830 ± 5   |             |             |
| Output power (mW)                       | >1, 5, 10, ..., 120                                       |             |             |
| Spectral line width (nm)                | <0.5  |             |             |
| Transverse mode                         | Near TEM <sub>00</sub>                                    |             |             |
| Operating mode                          | CW  |             |             |
| Power stability (rms, over 4 hours)     | <1%, <3%, <5%   |             |             |
| Warm-up time (minutes)                  | <5  |             |             |
| Beam divergence, full angle (mrad)      | <1.0  |             |             |
| Dimensions of beam at the aperture (mm) | ~3.0  |             |             |
| Beam height from base plate (mm)        | 24.8  |             |             |
| Operating temperature (°C)              | 10~35   |             |             |
| Power supply (90-264VAC)                | PSU-III-LED   | PSU-III-FDA | PSU-III-OEM |
| Modulation option                       | TTL/Analog 1Hz-5KHz, 1Hz-10KHz, 1Hz-30KHz, and TTL on/off |             |             |
| Expected lifetime (hours)               | 10000   |             |             |
| Warranty                                | 1 year  |             |             |



| MxL-III-830  | PSU-III-LED   | PSU-III-FDA   | PSU-III-OEM  |
|--|---|---|--|
| <p style="text-align: center;"><b>140.8(L)×73(W)×46.2(H) mm<sup>3</sup>, 0.6kg</b></p> | <p style="text-align: center;"><b>154 (L) ×155(W) ×95 (H) mm<sup>3</sup>, 1.5kg</b></p> | <p style="text-align: center;"><b>133 (L) ×130(W) ×65 (H) mm<sup>3</sup>, 1.2kg</b></p> | <p style="text-align: center;"><b>100 (L) ×60(W) ×56 (H) mm<sup>3</sup>, 0.2kg</b></p> |
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