

MLL-III-685L/1-50mW

SPECIFICATIONS



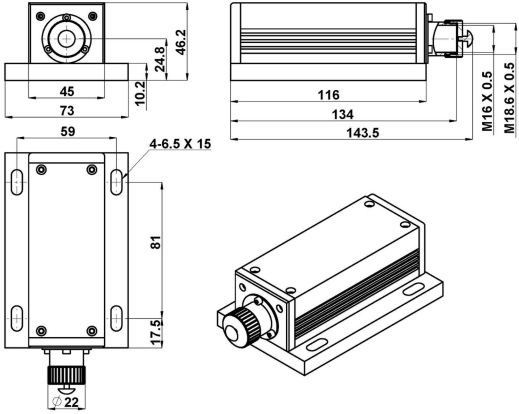
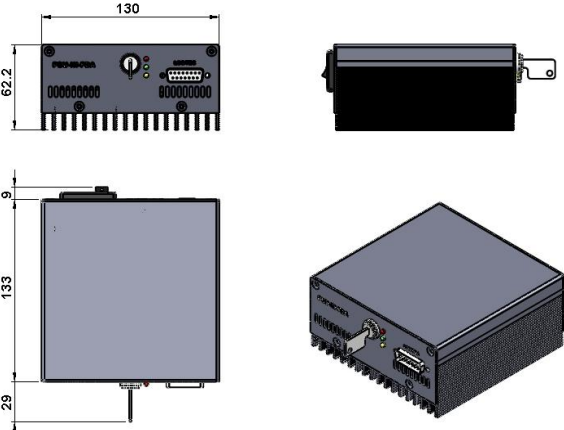
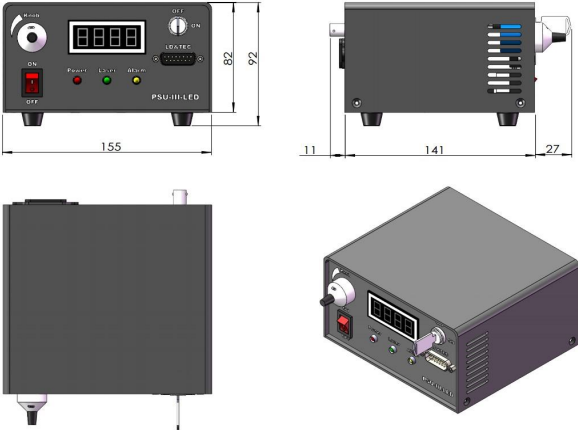
LOW NOISE RED DIODE LASER AT 685nm

It features ultra compact design, long lifetime, cost-effectiveness and easy operation. They are used in medical imaging, flow cytometry, DNA sequencing, etc.



| | |
|---|--|
| Central wavelength (nm) | 685±5 |
| Operating mode | CW |
| Output power (mW) ¹ | 1-50 |
| Power stability (rms, 4 hours ± 3°C) | <2%, <1%, <0.5% |
| Transverse mode | Near TEM ₀₀ |
| Noise of amplitude (rms, 20Hz-20MHz) | <1%, <0.5% |
| M ² | <1.5 |
| Beam diameter at the aperture (1/e ² , mm) | ~3.5 |
| Beam divergence, full angle (mrad) | <1.0 |
| Polarization ratio | >50:1, (>100:1 optional) Horizontal±5 degree (Vertical optional) |
| Warm-up time (minutes) | <5 |
| Cooled method | Conduction |
| Beam height from base plate (mm) | 24.8 |
| Operating temperature (°C) | 10-35 |
| Power supply (100-240VAC) | PSU-III-FDA/PSU-III-LED/PSU-A-D/PSU-III-OEM |
| Modulation option | DC-1kHz, 1kHz-10kHz, 10kHz-30kHz, 30kHz-100kHz optional; TTL and Analog optional |
| Expected lifetime (hours) | >10000 |



| LASER HEAD | POWER SUPPLY (PSU-III-FDA) ² | POWER SUPPLY (PSU-III-LED) ³ |
|---|---|--|
|  <p>143.5 (L) × 73 (W) × 46.2 (H) mm³, 0.7kg</p> |  <p>171 (L) × 130 (W) × 62.2 (H) mm³, 1.2kg</p> |  <p>179 (L) × 155 (W) × 92 (H) mm³, 1.5kg</p> |

| POWER SUPPLY (PSU-A-D) ⁴ | DRIVER (PSU-III-OEM) ² | POWER SUPPLY (100-240VAC) optional |
|---|---|--|
| <p data-bbox="360 754 640 775">162 (L) × 144 (W) × 70 (H) mm³, 1.0kg</p> | <p data-bbox="981 754 1261 775">100 (L) × 62 (W) × 55.2 (H) mm³, 0.5kg</p> | <p data-bbox="1592 754 1899 775">125.7 (L) × 50.2 (W) × 31.8 (H) mm³, 0.3kg</p> |

- 1 Any power level can be selected in this range.
- 2 Fixed output power; Modulation up to 30kHz.
- 3 Output power adjustable 10-100%; RS232 control optional; Modulation up to 30kHz.
- 4 Output power adjustable 10-100%; RS232 control optional; Modulation up to 100kHz.