



**MLL-III-852L/1~150mW**



**LOW NOISE INFRARED DIODE  
LASER AT 852nm**

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)	852±10	
Operating mode	CW	
Output power (mW)	>1, 10, 20, ..., 150	
Power stability (rms, over 4 hours)	<3%, <2%, <1%, <0.5%	
Transverse mode	Near TEM <sub>00</sub>	
Noise of amplitude (rms, 1Hz~20MHz)	<1%	
M <sup>2</sup> factor	<1.5 (~1.2, optional)	
Beam diameter at the aperture (1/e <sup>2</sup> , mm)	~4.0 (~1.2, optional)	
Beam divergence, full angle (mrad)	<1.0	
Polarization ratio	>50:1 (>100:1, optional) 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)
	100-240VAC	PSU-A-D (Frequency for 30kHz -100kHz)
Modulation optional	TTL on/off, 1Hz-1kHz, 1kHz-10kHz, 10kHz-30kHz, 30kHz-100kHz; and Analog modulation optional	
Expected lifetime (hours)	10000	
Warranty	1 year	



MLL-III-852L	PSU-III-LED	PSU-III-FDA	PSU-A-D
<p style="text-align: center;">143.5(L)×73(W)×46.2(H) mm<sup>3</sup>, 0.7kg</p>	<p style="text-align: center;">188.6 (L) ×155(W) ×92 (H) mm<sup>3</sup>, 1.5kg</p>	<p style="text-align: center;">171(L) ×130(W) ×62.2 (H) mm<sup>3</sup>, 1.2kg</p>	<p style="text-align: center;">162(L) ×144(W) ×70 (H) mm<sup>3</sup>, 1.0kg</p>