Opto Engine LLC

Data sheet

Rev. 1609

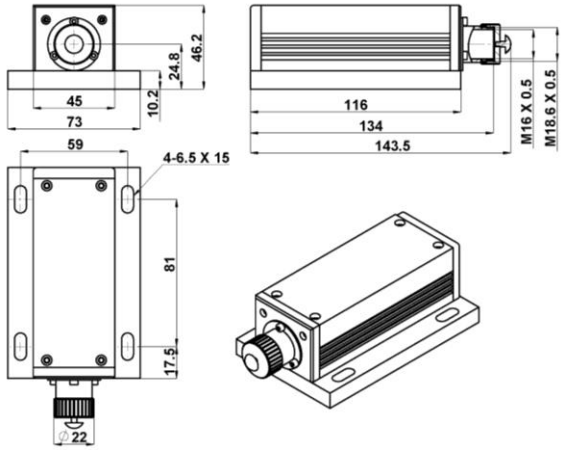
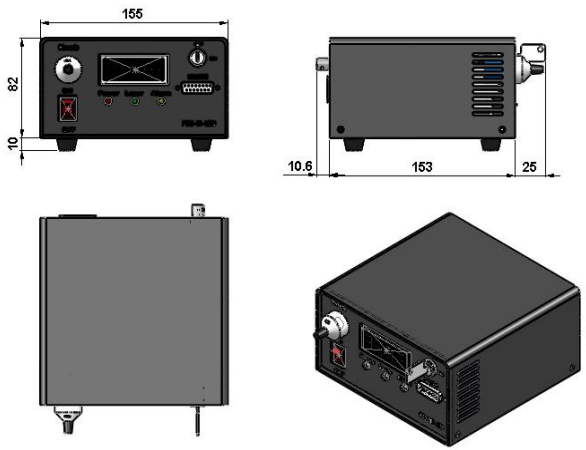
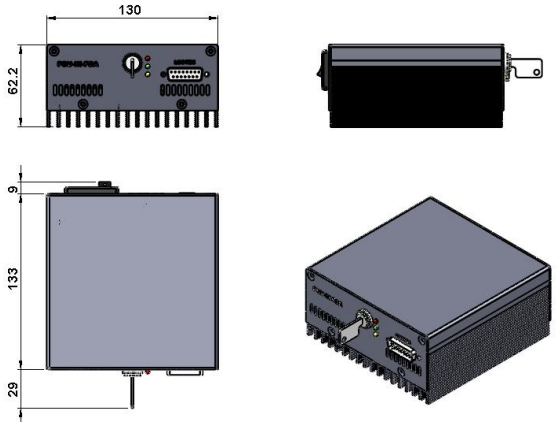
MLL-III-633/1~80mW

LOW NOISE RED DIODE LASER At 633nm

Low noise red diode laser at 633nm is made features of ultra compact, long lifetime, low cost and easy operating, which is widely used in measurement, spectrum analysis as the substitute for He-Ne lasers.

SPECIFICATIONS

Wavelength (nm)	633±3	
Operating mode	CW	
Output power (mW)	>1,10,20,…, 80	
Power stability (rms, over 4 hours)	<1%, <3%, <5%	
Transverse mode	Near TEM_{00}	
Noise of amplitude (rms, 20Hz~20MHz)	<1%	
M^2 factor	<1.5	
Beam diameter at the aperture ($1/e^2$,mm)	~3.0	
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 (℃)	10~35	
Power supply (85-264VAC)	PSU-III-LED	PSU-III-FDA
TTL / Analog modulation	TTL or Analog with 1Hz-1KHz 1KHz-10KHz, 10KHz-30KHz optional	
Expected lifetime (hours)	10000	
Warranty	1 year	

MxL-III-633	PSU-III-LED	PSU-III-FDA
		
143.5(L)×73(W) ×46. 2(H) mm³, 0.7kg	188.6 (L) ×155(W) ×92 (H) mm³, 1.5kg	171(L) ×130(W) ×62.2 (H) mm³, 1.2kg

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