Nano-Giga

Your source for high quality, affordable lasers

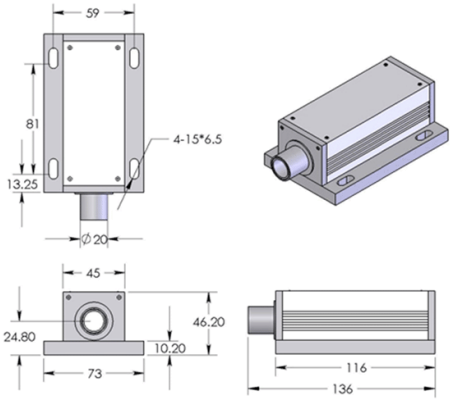
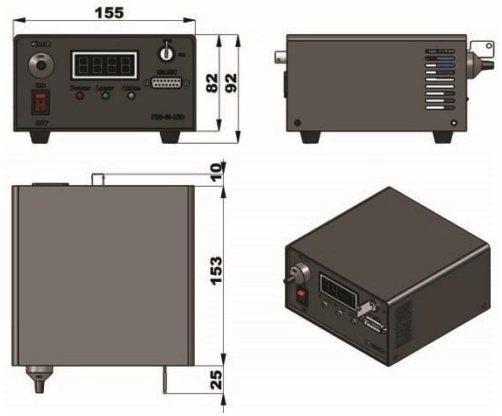
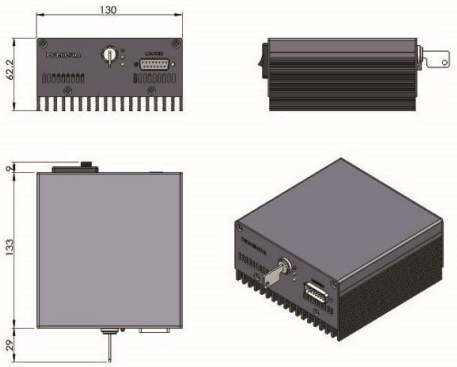
DATA SHEET

RED DIODE LASER AT 622nm

Red diode laser at 622nm is made features of ultra-compact, long lifetime, low cost and easy operating, which is widely used in collimation, laser medical treatment, scientific experiment, optical instrument, laser display, etc.

Model: MRL-III-622/1~50mW

Wavelength (nm)	622 ±3nm	
Output Power (mW)	>1, 10, 20, 30, 50	
Transverse Mode	Near TE_{00}	
Operating Mode	CW	
Power stability (rms, over 4 hours)	<1%, <3%, <5%	
Warm-up time (minutes)	<10	
M^2 factor	<20	
Beam divergence, half angle (mrad)	<1.5 x 0.5	
Dimensions of beam at the aperture (mm)	~4 x 5	
Beam height from base plate (mm)	24.8	
Polarization ratio	>50:1	
Pointing stability after warm-up (mrad)	<0.05	
Operating temperature (℃)	10~35	
Power supply (90-264VAC)	PSU-III-LED	PSU-III-FDA
Modulation option	TTL on/off, 1Hz-5KHz, 1Hz-10KHz, 10Hz-30KHz; and Analog modulation option	
Expected lifetime (hours)	10,000	
Warranty period	1 year	

MxL-III-622	Laser Head Dimensions	PSU-III-LED	PSU-III-FDA
			
	136(L) ×73(W) ×46.2(H) mm^3, 0.6kg	**188(L) ×155(W) ×92(H) mm^3, 1.5 kg**	**171(L) ×130(W) ×62.2(H) mm^3, 1.2kg**