



Your source for high quality, affordable lasers

## DATA SHEET


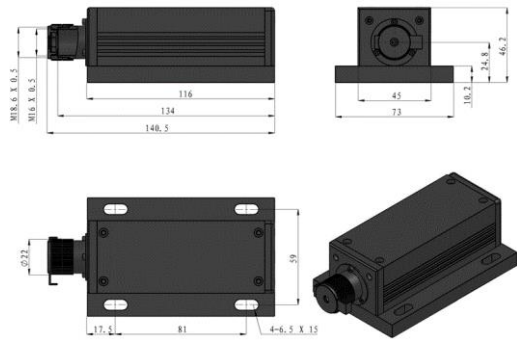
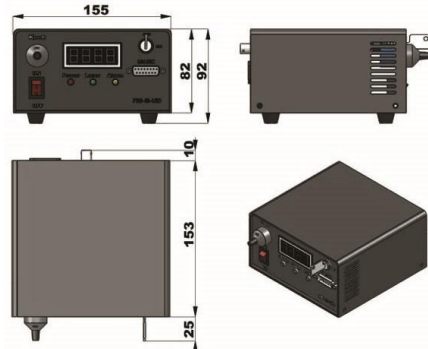
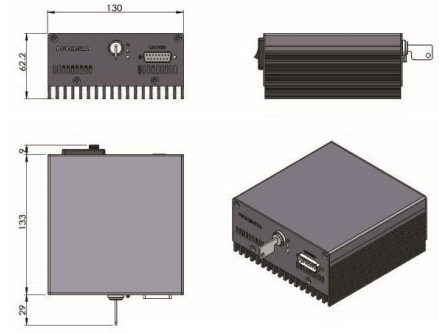
### BLUE DIODE LASER AT 450nm

Diode laser module at 450 nm is made features of ultra-compact, long lifetime, low cost and easy operating, which is used in measurement, communication, spectrum analysis, etc.

Model: MDL-III-450L / 1~50mW

Wavelength ( nm )	450 ± 5nm	
Output power ( mW )	>1, 10,... 50	
Transverse mode	Near TEM <sub>00</sub>	
Operating mode	CW	
Power stability (rms, over 4 hours)	<1%, <3%, <5%	
Warm-up time (minutes)	<5	
M <sup>2</sup> factor	<1.5 (<1.2, optional)	
Beam divergence, full angle (mrad)	<1.0	
Beam diameter at the aperture (mm)	~2.5 (~1.0, optional)	
Polarization ratio	>50:1 (>100:1, optional)	
Pointing stability after warm-up (mrad)	<0.05	
Beam height from base plate (mm)	24.8	
Operating temperature (°C)	10~35	
Power supply (90-264VAC)	PSU-III-LED	PSU-III-FDA
Modulation option	TTL/Analog, 1Hz-5KHz, 1Hz-10KHz, 1Hz-30KHz, and TTL on/off	
Expected lifetime (hours)	10,000	
Warranty period	1 year	



MxL-III-450L	Dimensions	PSU-III-LED	PSU-III-FDA
	 <p>140.5(L)×73(W)×46.2(H) mm<sup>3</sup>, 0.6kg</p>	 <p>188(L)×155(W)×92(H) mm<sup>3</sup>, 1.5kg</p>	 <p>171(L)×130(W)×62.2(H) mm<sup>3</sup>, 1.2kg</p>