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## DATA SHEET

### LD PUMPED ALL-SOLID-STATE LOW NOISE RED LASER AT 639nm

Low noise all solid state 639nm red laser is made features of ultra-compact, long lifetime, low cost and easy operating, which is widely used in measurement, spectrum analysis, and scientific research etc.

Model: MLL-FN-639/1~1000mW

Wavelength ( nm )	639 ± 1nm	
Output power ( mW )	>1, 10, 20, ..., 400	>400, 500, ..., 1000
Transverse mode	TEM <sub>00</sub>	
Spectral linewidth (nm)	<0.2 (<0.003 optional)	<0.2
Operating mode	CW	
Power stability (rms, over 4 hours)	<1%, <3%, <5%	
Noise of amplitude (rms, 20Hz~20MHz)	<1%, typical <0.5%	<1%
Warm-up time (minutes)	<10	
M <sup>2</sup> factor	<1.2	
Beam divergence, full angle (mrad)	<1.5	
Beam diameter at the aperture (1/e <sup>2</sup> , mm)	~1.0	
Beam height from base plate (mm)	27.4	
Polarization ratio	>100:1 (Horizontal) (option: vertical)	
Pointing stability after warm-up (mrad)	<0.05	
Operating temperature (°C)	10~35	
Power supply (90-264VAC)	PSU-H-FDA	
Expected lifetime (hours)	10,000	
Warranty period	1 year	



**Note: The laser head needs to be used on a heat sink with good heat dissipation**

MxL-FN-639	Laser Head Dimensions	PSU-H-FDA	Power Supply Dimensions
	<p>207(L) × 70(W) × 50(H) mm<sup>3</sup>, 2.0kg</p>		<p>275(L) × 145(W) × 104(H) mm<sup>3</sup>, 2.3kg</p>