



MLL-U-457 /1-350mW



**ULTRA- LOW NOISE DPSS  
LASER AT 457nm**

Ultra low noise laser at 457nm is made features of ultra compact, long lifetime, high stability and reliability, which is used in scientific experiment, medical measurement, instrument, spectrum analysis, etc.



**SPECIFICATIONS**

Central wavelength (nm)	457±1	
Operating mode	CW	
Output power (mW)	>1, 5, 10, 20, ..., 150	>150, ..., 350
Power stability (rms, over 4 hours)	<1%, <2%, <3%	<2%, <3%, <5%
Transverse mode	TEM <sub>00</sub>	
Spectral linewidth (nm)	<0.003	
Noise of amplitude (rms, 1Hz~20MHz)	<0.5%, <1%	
M <sup>2</sup> factor	<1.5	
Beam diameter at the aperture (1/e <sup>2</sup> , mm)	0.70±0.05	
Beam divergence (mrad)	<1.5	
Polarization Ratio	>100:1, Vertical±5 degree	
Warm-up time (minutes)	<10	
Pointing stability after warm-up (mrad)	<0.05	
Beam height from base plate (mm)	27.4	
Laser head consumption(W)	15 (typical) , <25 (40°C)	
Max. Laser Head Base plate Temp (°C)	50	
Operating Temperature (°C)	10-40	
Power supply (90-264VAC)	PSU-H-FDA	
Expected lifetime (hours)	10000	
Warranty	1 year	



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

MLL-U-457	PSU-H-FDA
<p>142.5 (L)×60(W) ×50(H) mm<sup>3</sup>, 1.0 kg</p>	<p>275(L) ×145(W) ×104(H) mm<sup>3</sup>, 2.3 kg</p>