

## MLL-U-457 /1-400mW



### 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, ..., 400
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℃)	
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>236(L) ×145(W) ×104(H) mm<sup>3</sup>, 2.3 kg</p>