



MSL-U series



SINGLE LONGITUDINAL MODE LASER

All solid state single longitudinal mode laser is made features of ultra compact, long lifetime, low cost and easy operating, which is used in DNA sequencing, flow cytometry, cell sorting, optical instrument, spectrum analysis, interference, measurement, holography, physics experiment, etc.

SPECIFICATIONS



Wavelength (nm)	457±1	473±1	532±1	
Operating mode	CW			
Output power (mW)	1-300	1-80	1-300	300-800
Power stability (rms, over 4 hours)	<3%, <2%, <1%	<3%, <2%, <1%	<3%, <2%, <1%, <0.5%	<5%, <3%, <2%
Transverse mode	TEM ₀₀			
Longitudinal mode	Single			
Spectral line width (nm)	<0.00001			
Noise of amplitude (rms, 1Hz~20MHz)	<1%, <0.5%		<1%, <0.5%, <0.25%	
M ² factor	<1.2			
Beam diameter at the aperture (1/e ² , mm)	<1			
Beam divergence (mrad)	<1.5			
Polarization Ratio	>100:1, (Horizontal or Vertical Optional)			
Warm-up time (minutes)	<5			
Pointing stability after warm-up (mrad)	<0.05			
Coherent length (m)	>50			
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.



SPECIFICATIONS

Wavelength (nm)	671±1	Other wavelengths can be customized, please consult.
Operating mode	CW	
Output power (mW)	1-400	/
Power stability (rms, over 4 hours)	<3%, <2%, <1%	/
Transverse mode	TEM ₀₀	
Longitudinal mode	Single	
Spectral line width (nm)	<0.00001	
Noise of amplitude (rms, 1Hz~20MHz)	<1%, <0.5%	
M ² factor	<1.2	
Beam diameter at the aperture (1/e ² , mm)	<1.0	
Beam divergence (mrad)	<1.5	
Polarization Ratio	>100:1, (Horizontal or Vertical Optional)	
Warm-up time (minutes)	<5	
Pointing stability after warm-up (mrad)	<0.05	
Coherent length (m)	>50	
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	
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LASER HEAD	POWER SUPPLY
<p>142.5 (L)×60(W)×50(H) mm³, 1.0 kg</p>	<p>275(L)×145(W)×104(H) mm³, 2.3 kg</p>