

MLL-U-xxx-SU series



LOW NOISE INFRARED LASER

All solid state low noise infrared laser is made features of ultra compact, long lifetime, low cost and easy operating, which is used in scientific experiment, optical sensor, measurement, instrument, communication, spectrum analysis, etc.



SPECIFICATIONS

Wavelength (nm)	914±1		946±1		1047±1		1053±1		1064±1
Operating mode	CW								
Output power (mW)	1-200	200-400	1-150	150-300	1-800	800-1000	1-500	500-1500	1500-3000
Power stability (rms, over 4 hours)	<3%, <2%, <1%	<3%, <2%	<3%, <2%, <1%	<3%, <2%	<3%, <2%		<3%, <2%, <1%	<3%, <2%	<3%, <2%, <1%
Transverse mode	TEM ₀₀								
Spectral line width (nm)	<1.0, <0.1, <0.006	<1.0, <0.1	<1.0, <0.1, <0.006	<1.0, <0.1	<1.0, <0.1, <0.006	<1.0, <0.1	<1.0, <0.1, <0.006	<1.0, <0.1	
Noise of amplitude (rms, 20Hz~20MHz)	<1%								
M ² factor	<1.2			<1.5					
Beam diameter at the aperture (1/e ² , mm)	~1.5								
Beam divergence, full angle (mrad)	<1.5								
Polarization Ratio	>100:1, Horizontal (Vertical Optional)		/			>100:1, Horizontal (Vertical Optional)			
Warm-up time (minutes)	<5								
Pointing stability after warm-up (mrad)	<0.05								
Beam height from base plate (mm)	27.4								
Operating Temperature (°C)	10~35								
Power supply	90-264VAC				PSU-H-FDA				
	DC 12V				PSU-H-OEM				
Expected lifetime (hours)	10000								
Warranty	1 year								

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



SPECIFICATIONS

Central wavelength (nm)	1085±2		1112±3		1122±3		1313±1	
Operating mode	CW							
Output power (mW)	1-500	500-1000	1-50	50-100	1-200	200-300	1-700	700-1000
Power stability (rms, over 4 hours)	<3%, <2%, <1%,	<3%, <2%	<3%, <2%, <1%,	<3%, <2%	<3%, <2%, <1%,	<3%, <2%	<3%, <2%, <1%,	<3%, <2%
Transverse mode	TEM ₀₀							
Spectral line width (nm)	<1.0, <0.1, <0.006	<1.0, <0.1	<1.0, <0.1, <0.006	<1.0, <0.1	<1.0, <0.1, <0.006	<1.0, <0.1	<1.0, <0.2, <0.006	<1.0, <0.1
Noise of amplitude (rms, 20Hz~20MHz)	<1%							
M ² factor	<1.5						<1.2	
Beam diameter at the aperture (1/e ² , mm)	~1.5							
Beam divergence, full angle (mrad)	<1.5							
Polarization Ratio	>100:1, Horizontal (Vertical Optional)			/			>100:1, Horizontal (Vertical Optional)	
Warm-up time (minutes)	<5							
Pointing stability after warm-up (mrad)	<0.05							
Beam height from base plate (mm)	27.4							
Operating Temperature (°C)	10~35							
Power supply	90-264VAC		PSU-H-FDA					
	DC 12V		PSU-H-OEM					
Expected lifetime (hours)	10000							
Warranty	1 year							

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



SPECIFICATIONS

Central wavelength (nm)	1319±1	1342±1	1444±2
Operating mode	CW		
Output power (mW)	1-200	1-800	800-2000
Power stability (rms, over 4 hours)	<3%, <2%, <1%,	<3%, <2%, <1%,	<3%, <2%
Transverse mode	TEM ₀₀		
Spectral line width (nm)	<0.006	<1.0, <0.2, <0.006	<1.0, <0.1
Noise of amplitude (rms, 20Hz~20MHz)	<1%		
M ² factor	<1.5	<1.2	<1.5
Beam diameter at the aperture (1/e ² , mm)	~1.5		
Beam divergence, full angle (mrad)	<1.5		
Polarization Ratio	>100:1, Horizontal (Vertical Optional)		
Warm-up time (minutes)	<5		
Pointing stability after warm-up (mrad)	<0.05		
Beam height from base plate (mm)	27.4		
Operating Temperature (°C)	10~35		
Power supply	90-264VAC	PSU-H-FDA	
	DC 12V	PSU-H-OEM	
Expected lifetime (hours)	10000		
Warranty	1 year		

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



LASER HEAD	POWER SUPPLY (PSU-H-FDA)	POWER SUPPLY (PSU-H-OEM)
<p>160(L)×60(W)×50(H) mm³, 0.9kg</p>	<p>276.6(L)×145(W)×103.6(H) mm³, 2.3 kg</p>	<p>235(L)×110(W)×45(H) mm³, 1.1kg</p>