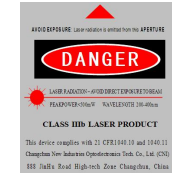


MLL-U series



ULTRA- LOW NOISE DPSS LASER

Ultra low noise laser 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

Wavelength (nm)	457±1		473±1		532±1		550±1	
Operating mode	CW							
Output power (mW)	1-200	200-350	1-100		1-300	300-400	80-100	
Power stability (rms, over 4 hours)	<2%, <3%	<3%, <5%	<1%, <3%, <5%		<1%, <2%, <3%	<2%, <3%	<1%, <2%, <3%	
Transverse mode	TEM ₀₀							
Spectral line width (nm)	<0.2 (<0.003 Optional)							
Noise of amplitude (rms, 1Hz~20MHz)	<1%			<0.5%, <1%			<1%	
M ² factor	<1.5		<1.2					
Beam diameter at the aperture (1/e ² , mm)	<1.0							
Beam divergence, full angle (mrad)	<1.5							
Polarization Ratio	>100:1, (Horizontal or 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/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)	561±1	577±2	588±2	589±1
Operating mode	CW			
Output power (mW)	1-200	1-200	1-200	1-200
Power stability (rms, over 4 hours)	<1%, <2%, <3%	<1%, <2%, <3%	<0.5% (Optional), <1%, <2%, <3%	<0.5% (Optional), <1%, <2%, <3%
Transverse mode	TEM ₀₀			
Spectral line width (nm)	<0.2 (<0.003 Optional)			
Noise of amplitude (rms, 1Hz~20MHz)	<0.5%, <1%	<1%	<0.5%, <1%	
M ² factor	<1.2			
Beam diameter at the aperture (1/e ² , mm)	<1.0			
Beam divergence, full angle (mrad)	<1.5			
Polarization Ratio	>100:1, (Horizontal or 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/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)	671±1		914±1	946±1	1030±1
Operating mode	CW				
Output power (mW)	1-300	300-500	1-100	1-100	1-20
Power stability (rms, over 4 hours)	<1%, <2%, <3%	<2%, <3%	<1%, <2%, <3%	<1%, <2%, <3%	<1%, <2%, <3%
Transverse mode	TEM ₀₀				
Spectral line width (nm)	<0.2 (<0.003 Optional)		<1.0 (<0.2 Optional)		
Noise of amplitude (rms, 1Hz~20MHz)	<0.5%, <1%		<1%		
M ² factor	<1.2		<1.2		
Beam diameter at the aperture (1/e ² , mm)	<1.0		<1.5	<2.0	~2.0
Beam divergence, full angle (mrad)	<1.5		<1.2		
Polarization Ratio	>100:1, (Horizontal or 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/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)	1040±1	1047±1	1053±1	1064±1
Operating mode	CW			
Output power (mW)	1-100	500-1000	500-1500	1-3000
Power stability (rms, over 4 hours)	<3%, <5%	<2%, <3%, <5%	<1% ,<2%, <3%, <5%	<1%,<2%,<3%
Transverse mode	TEM ₀₀			
Spectral line width (nm)	<1.0 (<0.2 Optional)			
Noise of amplitude (rms, 1Hz~20MHz)	<1%			
M ² factor	<1.2			
Beam diameter at the aperture (1/e ² , mm)	<2.0			
Beam divergence, full angle (mrad)	<1.2			
Polarization Ratio	>100:1, (Horizontal or 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/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)	1313±1		1319±1		1342±1
Operating mode	CW				
Output power (mW)	400-800	800-1000	500-1000	1000-1500	1000-2000
Power stability (rms, over 4 hours)	<1%, <2%, <3%	<2%, <3%, <5%	<1%, <2%, <3%	<2%, <3%, <5%	<1%, <2%, <3%, <5%
Transverse mode	TEM ₀₀				
Spectral line width (nm)	<1.0 (<0.2 Optional)				
Noise of amplitude (rms, 1Hz~20MHz)	<1%				
M ² factor	<1.2				
Beam diameter at the aperture (1/e ² , mm)	<2.0				
Beam divergence, full angle (mrad)	<1.2				
Polarization Ratio	>100:1, (Horizontal or 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/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>197(L)×70(W)×50(H)mm³, 1.5 kg</p>	<p>275(L) ×145(W) ×104(H)mm³, 2.3kg</p>	<p>235(L) ×110(W) ×45(H)mm³, 1.1kg</p>

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