

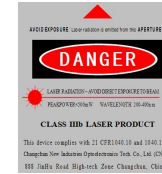


MLL-SU series



LOW NOISE INFRARED LASER AT 914 nm

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	
Operating mode	CW							
Output power (mW)	1-200	200-400	1-200	200-300	1-200	200-500	1-200	200-500
Power stability (rms, over 4 hours)	<3%, <2%, <1%,	<5%, <3%, <2%	<3%, <2%, <1%,	<5%, <3%, <2%	<3%, <2%	<5%, <3%	<3%, <2%, <1%	<5%, <3%, <2%
Transverse mode	TEM ₀₀							
Noise of amplitude (rms, 1Hz~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		/			>100:1		
Warm-up time (minutes)	<10							
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)	1085±2		1112±3		1122±3		1313±1	
Operating mode	CW							
Output power (mW)	1-500	500-1000	1-50	50-100	1-100	100-300	1-200	200-400
Power stability (rms, over 4 hours)	<3%, <2%, <1%	<5%, <3%, <2%	<3%, <2%, <1%	<5%, <3%, <2%	<3%, <2%, <1%	<5%, <3%, <2%	<3%, <2%, <1%	<5%, <3%, <2%
Transverse mode	TEM ₀₀							
Noise of amplitude (rms, 1Hz~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		/				>100:1	
Warm-up time (minutes)	<10							
Pointing stability after warm-up (mrad)	<0.05							
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Note: The laser head needs to be used on a heat sink with good heat dissipation.

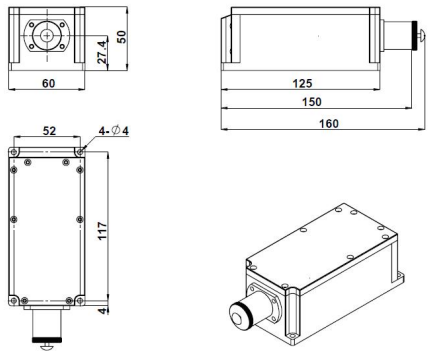
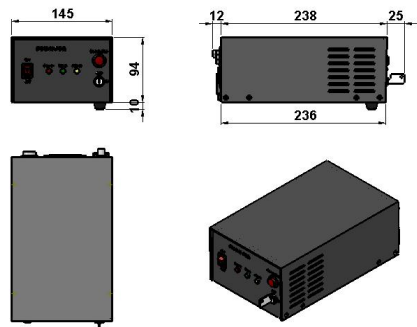
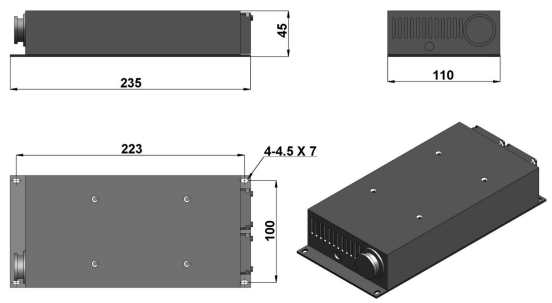


SPECIFICATIONS

Central wavelength (nm)	1319±1		1342±1		1444±2	
Operating mode	CW					
Output power (mW)	>1, 5, 10, 20, ... , 200	>200, ... , 500	>1, 5, 10, 20, ... , 500	>500, ... , 1000	>1, 5, 10, 20, ... , 200	>200, ... , 400
Power stability (rms, over 4 hours)	<3%, <2%, <1%,	<5%, <3%, <2%	<3%, <2%, <1%,	<5%, <3%, <2%	<3%, <2%	<5%, <3%
Transverse mode	TEM ₀₀					
Noise of amplitude (rms, 1Hz~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					
Warm-up time (minutes)	<10					
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 data-bbox="392 694 638 718">160(L)×60(W)×50(H) mm³, 0.9kg</p>	 <p data-bbox="1019 694 1288 718">275(L)×145(W)×104(H) mm³, 2.3 kg</p>	 <p data-bbox="1624 694 1892 718">235(L)×110(W)×45(H) mm³, 1.1kg</p>