



MxL-U-xxx-SU series



LD PUMPED ALL-SOLID-STATE INFRARED LASER

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



SPECIFICATIONS

Part number	MIL-U-914-SU	MIL-U-946-SU	MIL-U-1047-SU	MIL-U-1053-SU
Wavelength (nm)	914±1	946±1	1047±1	1053±1
Operating mode	CW			
Output power (mW)	800-1700	800-1500	1000-4000	1500-4000
Power stability (rms, over 4 hours)	<5%, <3%, <2%	<5%, <3%, <2%	<5%, <3%	<5%, <3%
Transverse mode	TEM ₀₀			
M ² factor	<1.5			
Beam diameter at the aperture (1/e ² , mm)	~1.0			
Beam divergence (mrad)	<1.5			
Polarization Ratio	>100:1, (Horizontal or Vertical Optional)	/	>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			
Modulation option	/		TTL on/off, 1Hz-1kHz, 1kHz-10kHz, 10kHz-30kHz; and Analog modulation optional	
Power supply (90-264VAC)	PSU-H-LED/PSU-H-FDA/PSU-H-OEM/PSU-SR			
Expected lifetime (hours)	10000			
Warranty	1 year			

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



SPECIFICATIONS

Part number	MIL-U-1064-SU	MIL-U-1085-SU		MIL-U-1112-SU	MIL-U-1122-SU
Wavelength (nm)	1064±1	1085±1		1112±3	1122±1
Operating mode	CW				
Output power (mW)	3000-4000	1-500	500-1000	500-2000	1000-1200
Power stability (rms, over 4 hours)	<5%, <3%, <2%	<3%, <2%, <1%	<5%, <3%, <2%	<5%, <3%, <2%	<5%, <3%, <2%
Transverse mode	TEM ₀₀				
M ² factor	<1.5				
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				
Beam height from base plate (mm)	27.4				
Operating Temperature (°C)	10-35				
Modulation option	TTL on/off, 1Hz-1kHz, 1kHz-10kHz, 10kHz-30kHz; and Analog modulation optional				
Power supply (90-264VAC)	PSU-H-LED/PSU-H-FDA/PSU-H-OEM/PSU-SR				
Expected lifetime (hours)	10000				
Warranty	1 year				

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



SPECIFICATIONS

Part number	MIL-U-1177-SU	MIL-U-1313-SU	MIL-U-1319-SU		MIL-U-1342-SU
Wavelength (nm)	1177±1	1313±1	1319±1		1342±1
Operating mode	CW				
Output power (mW)	1-400	1000-2000	1-200	200-1200	2000-3000
Power stability (rms, over 4 hours)	<3%, <2%	<5%, <3%, <2%	<5%, <3%, <2%, <1%	<5%, <3%	<5%, <3%, <2%
Transverse mode	TEM ₀₀		Near TEM ₀₀		
M ² factor	<1.5				
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				
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				
Modulation option	TTL on/off, 1Hz-1kHz, 1kHz-10kHz, 10kHz-30kHz; and Analog modulation optional				
Power supply (90-264VAC)	PSU-H-LED/PSU-H-FDA/PSU-H-OEM/PSU-SR				
Expected lifetime (hours)	10000				
Warranty	1 year				

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

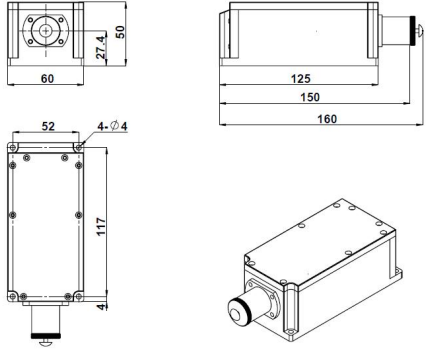

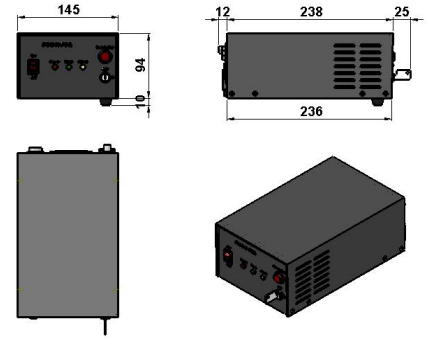
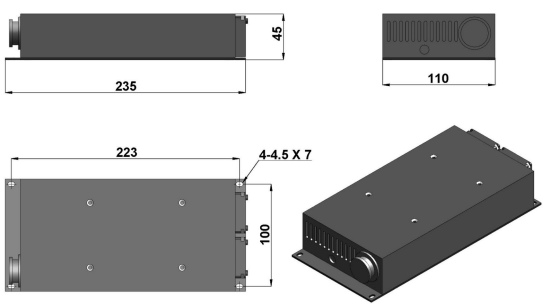
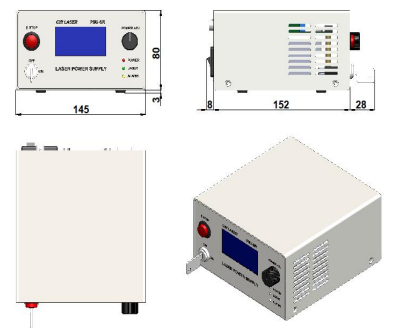


SPECIFICATIONS

Part number	MIL-U-1444-SU	
Wavelength (nm)	1444±2	
Operating mode	CW	
Output power (mW)	1-200	200-400
Power stability (rms, over 4 hours)	<5%, <3%, <2%	<5%, <3%
Transverse mode	Near TEM ₀₀	
M ² factor	<1.5	
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	
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	
Modulation option	TTL on/off, 1Hz-1kHz, 1kHz-10kHz, 10kHz-30kHz; and Analog modulation optional	
Power supply (90-264VAC)	PSU-H-LED/PSU-H-FDA/PSU-H-OEM/PSU-SR	
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-LED)	POWER SUPPLY (PSU-H-FDA)
 <p>160(L)×60(W)×50(H) mm³, 0.9kg</p>	 <p>277 (L) ×145(W) ×106 (H) mm³, 2.6 kg</p>	 <p>275(L) ×145(W) ×104(H) mm³, 2.3 kg</p>
POWER SUPPLY (PSU-H-OEM)	POWER SUPPLY (PSU-SR)	
 <p>235(L) ×110(W) ×45(H) mm³, 1.1kg</p>	 <p>188(L) ×145(W) ×83(H) mm³, 1.2kg</p>	