



MLL-F series



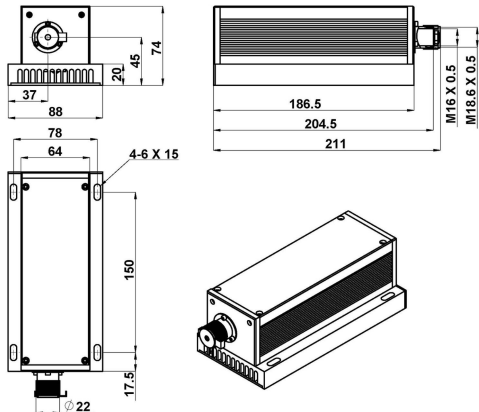
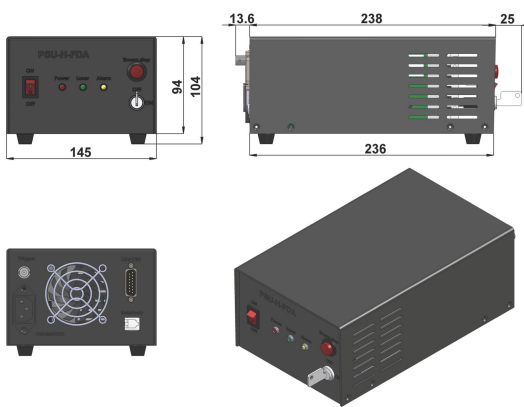
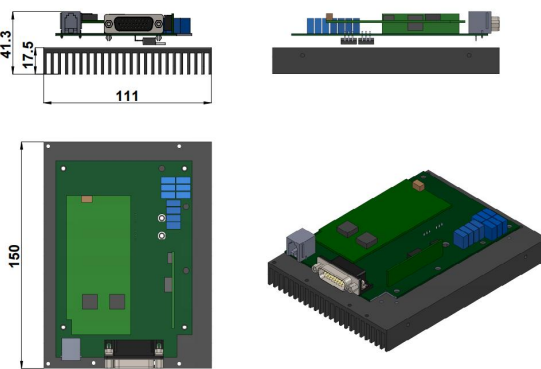
LOW NOISE INFRARED LASER

The all-solid-state, low-noise infrared laser features an ultra-compact design, a long lifetime, and easy operation. It is widely used in scientific experiments, laser-induced fluorescence, and other applications.



SPECIFICATIONS

Wavelength (nm)	457±1	515±2	577±1	671±1	1030±2	
Operating mode	CW					
Output power (mW) ¹	350-1000	1-50	200-300	1000-1500	1-50	50-100
Power stability (rms, 4 hours ±3°C)	<3%, <2%	<3%, <2%, <1%	<3%, <2%	<3%, <2%, <1%		<3%, <2%
Spectral line width (nm)	<0.1					
Transverse mode	Near TEM ₀₀	TEM ₀₀				
Noise of amplitude (rms, 20Hz-20MHz)	<3%	<1%				
M ²	<2.0	<1.5	<1.2			<1.5
Beam diameter at the aperture (1/e ² , mm)	~2.0	<3.0	~2.0	~3.0	~2.0	
Beam divergence (mrad)	<1.5			<2.0		
Polarization ratio	>100:1, Vertical (Horizontal optional)	>100:1, Horizontal (Vertical optional)		>100:1, Vertical (Horizontal optional)	>100:1, Horizontal (Vertical optional)	
Warm-up time (minutes)	<5					
Pointing stability (μrad) (over 2 hours after warm-up and ±3°C)	<50					
Beam height from base plate (mm)	45					
Operating temperature (°C)	10-35					
Power supply (100-240VAC)	PSU-H-FDA					
Operating voltage (VDC)	PSU-SR-OEM (12V/25A)					
Expected lifetime (hours)	>10000					

LASER HEAD	POWER SUPPLY (PSU-H-FDA) ²	DRIVER (PSU-SR-OEM) ²
 211 (L) × 88 (W) × 74 (H) mm³, 1.6kg	 276.6 (L) × 145 (W) × 103.6 (H) mm³, 2.3kg	 150 (L) × 111 (W) × 41.3 (H) mm³, 0.8kg

1 Any power level can be selected in this range.

2 Fixed output power.