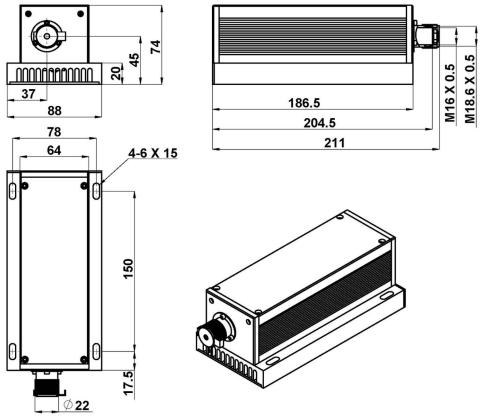
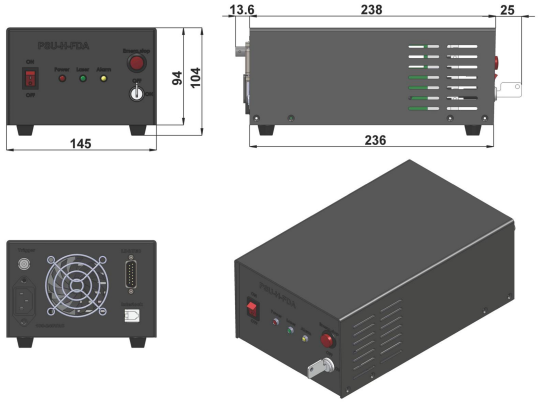
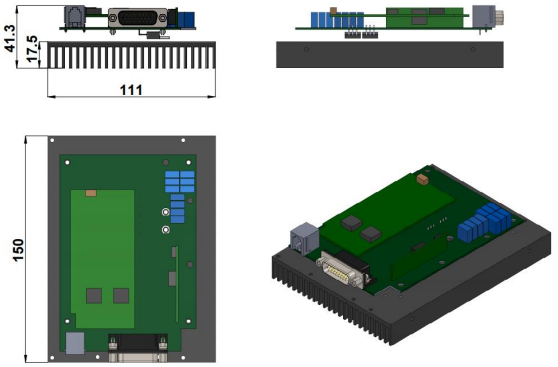
MLL-F series

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	577±1	671±1	1030±2	
Operating mode	CW				
Output power (mW)[1]	350-1000	200-300	1000-1500	1-50	50-100
Power stability (rms, 4 hours ±3°C)	<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	<1.2		<1.5	
Beam diameter at the aperture ($1/e^2$, mm)	~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				
Power supply (12VDC)	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.