Nano-Giga

Your source for high quality, affordable lasers

DATA SHEET

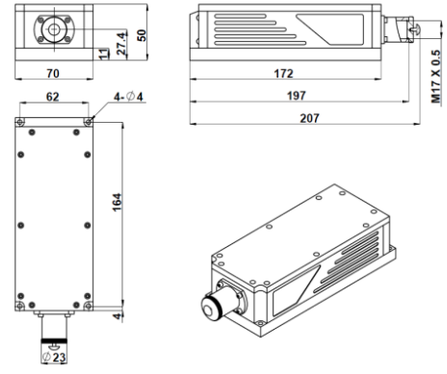
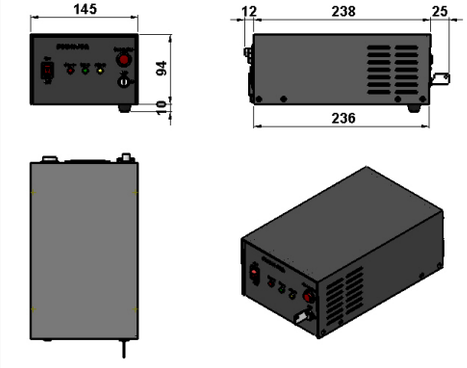
ALL-SOLID-STATE RED SINGLE LANGITUDINAL LASER AT 639nm

All solid state single longitudinal mode red laser at 639nm is made features of ultra-compact, long lifetime, low cost and easy operating, which is used in DNA sequencing, flow cytometry, cell sorting, optical instrument, spectrum analysis, interference, measurement, holography, physics experiment, etc.

Model: MSL-FN-639/1~400mW

Wavelength (nm)	639 ± 1nm	
Operating mode	CW	
Output power (mW)	>1, 5, 10, 20, … 300	>300, …, 400
Power stability (rms, over 4 hours)	<1%, <2%, <3%	<2%, <3%
Transverse mode	TEM_{00}	
Longitudinal mode	Single	
Spectral linewidth (nm)	<0.0003	
Coherence length (m)	>10	
Noise of amplitude (rms, 1Hz~20MHz)	<1%, (typical <0.5%)	
M^2 factor	<1.2 (<1.1 optional)	
Beam divergence, full angle (mrad)	<1.2	
Beam diameter at aperture ($1/e^2$, mm)	<1.5	
Beam height from base plate (mm)	27.4	
Warm-up time (minutes)	<10	
Polarization ratio	>100:1 Vertical±5 degree (Horizontal Optional)	
Pointing stability after warm-up (mrad)	<0.05	
Operating temperature (°C)	10~35	
Power supply (90-264VAC)	PSU-H-FDA	
Expected lifetime (hours)	10,000	
Warranty period	1 year	

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

MxL-FN-639	Dimensions	PSU-H-FDA	Dimensions
			
	197(L) ×70(W) ×50(H) mm³, 2.0kg		**236(L) ×145(W) ×104(H) mm³, 2.3kg**