Opto Engine LLC

Data sheet

Rev. 1812

MSL-FN-639/1~400mW

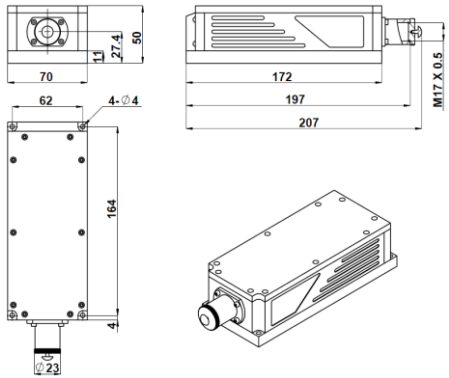
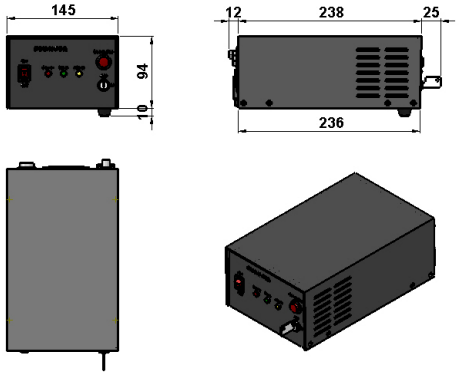
SINGLE LONGITUDINAL MODE RED LASER AT 639nm

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.

SPECIFICATIONS

Central wavelength (nm)	639±1	
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	
Coherent length (m)	>10	
Noise of amplitude (rms, 1Hz~20MHz)	<1%, typical<0.5%	
M^2 factor	<1.2(<1.1 optional)	
Beam diameter at the aperture ($1/e^2$, mm)	<1.5	
Beam divergence, full angle (mrad)	<1.5	
Polarization ratio	>100:1, Horizontal±5 degree (Vertical Optional)	
Warm-up time (minutes)	<10	
Pointing stability after warm-up (mrad)	<0.05	
Beam height from base plate (mm)	27.4	
Operating temperature (℃)	15~35	
Power supply (90-264VAC)	PSU-H-FDA	
Expected lifetime (hours)	10000	
Warranty	1 year	

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

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

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