

# Opto Engine LLC

## Data sheet

Rev. 0912

MSL-III-1342/1~200mW

### SINGLE LONGITUDINAL MODE INFRARED LASER AT 1342 nm

All solid state single frequency laser at 1342 nm 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, laser printing, chip inspection, physics experiment, etc.



#### SPECIFICATIONS

Wavelength (nm)	1342	
Output power (mW)	>1, 5, 10, 20, ... ,200	
Transverse mode	TEM <sub>00</sub>	
Longitudinal mode	Single	
Operating mode	CW	
Power stability (rms, over 4 hours)	<1%, <3%, <5%	
Warm-up time (minutes)	<15	
M <sup>2</sup> factor	<1.5	
Beam divergence, full angle (mrad)	<1.5	
Beam diameter at the aperture (mm)	~2.0	
Beam height from base plate (mm)	24.8	
Spectral linewidth (nm)	<0.0001	
Polarization ratio	>100:1 (Horizontal)	
Pointing stability after warm-up (mrad)	<0.05	
Noise of amplitude (rms, 1~20MHz)	<0.5%	
Coherent length (m)	>50	
Operating temperature (°C)	15~35	
Power supply (90-264VAC)	PSU-III-FDA	PSU-III-OEM
Modulation	Modulation isn't available.	
Expected lifetime (hours)	10000	
Warranty	1 year	



MxL-III-1342	PSU-III-FDA	PSU-III-OEM
<p>140.8(L)×73(W)×46.2(H) mm<sup>3</sup>, 0.6kg</p>	<p>133 (L) ×130(W) ×65 (H) mm<sup>3</sup>, 1.2kg</p>	<p>100 (L) ×60(W) ×56 (H) mm<sup>3</sup>, 0.2kg</p>