



MSL-U-1047/1-500mW



**SINGLE LONGITUDINAL MODE  
LASER AT 1047 nm**

All solid state single longitudinal mode laser at 1047 nm is made features of ultra compact, long lifetime, cost-effectiveness 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)	1047
Operating mode	CW
Output power (mW)	>1, 5, 10, 20, ..., 500
Power stability (rms, over 4 hours)	<1%, <3%, <5%
Transverse mode	TEM <sub>00</sub>
Longitudinal mode	Single
Spectral linewidth (nm)	<0.00001
Coherent length (m)	>50
Noise of amplitude (rms, 1Hz~20MHz)	<1%, typical<0.5%
M <sup>2</sup> factor	<1.2
Beam diameter at the aperture (1/e <sup>2</sup> , mm)	0.70±0.05
Beam divergence (mrad)	<1.5
Polarization Ratio	>100:1, Horizontal±5 degree
Warm-up time (minutes)	<10
Pointing stability after warm-up (mrad)	<0.05
Beam height from base plate (mm)	27.4
Laser head consumption(W)	15 (typical) , <25 (40°C)
Max. Laser Head Base plate Temp ( °C)	50
Operating Temperature ( °C)	10-40
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.

MXL-U-1047	PSU-H-FDA
<p>136(L) x 60(W) x 50(H) mm<sup>3</sup>, 1.5 kg</p>	<p>236(L) x 145(W) x 104(H) mm<sup>3</sup>, 2.3 kg</p>