

**MSL-FN-1319/1~50mW**

### SINGLE LONGITUDINAL MODE INFRARED LASER AT 1319nm

All solid state single longitudinal mode infrared laser at 1319nm 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

Wavelength (nm)	1319±1
Operating mode	CW
Output power (mW)	>1, 5, 10, 20, ... , 50
Power stability (rms, over 4 hours)	<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	<2.0
Beam diameter at the aperture (1/e <sup>2</sup> , mm)	<2.0
Beam divergence, full angle (mrad)	<1.5
Warm-up time (minutes)	<10
Pointing stability after warm-up (mrad)	<0.05
Beam height from base plate (mm)	27.4
Operating temperature (°C)	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.**

MXL-FN-1319	PSU-H-FDA
<p style="text-align: center;"><b>197(L)×70(W)×50(H) mm<sup>3</sup>, 2.0 kg</b></p>	<p style="text-align: center;"><b>236(L) ×145(W) ×104(H) mm<sup>3</sup>, 2.3 kg</b></p>