

**MSL-FN-639/1~300mW**



**SINGLE LONGITUDINAL MODE  
LASER AT 639nm**

All solid state single longitudinal mode 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, brillouin scattering, physics experiment, etc.

**SPECIFICATIONS**

Wavelength (nm)	639±1
Operating mode	CW
Output power (mW)	1 - 300
Power stability (rms, over 4 hours)	<3%, <2%, <1%
Transverse mode	TEM <sub>00</sub>
Longitudinal mode	Single
Spectral linewidth (nm)	<0.00001
Coherent length (m)	>50
Noise of amplitude (rms, 1Hz~20MHz)	<0.5%, <1%
M <sup>2</sup> factor	<1.2 (<1.1, optional)
Beam diameter at the aperture (1/e <sup>2</sup> , mm)	<1.5
Beam divergence, full angle (mrad)	<1.5
Polarization ratio	>100:1 Horizontal±5 degree (Vertical Optional)
Warm-up time (minutes)	<5
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)
Operating temperature (°C)	10~40
Power supply (90-264VAC)	PSU-H-FDA
Expected lifetime (hours)	10000



MSL-FN-639	PSU-H-FDA
<p>197(L)×70(W)×50(H) mm<sup>3</sup>, 1.5kg</p>	<p>275(L)×145(W)×104(H) mm<sup>3</sup>, 2.3 kg</p>