

589 nm Single Longitudinal Mode Blue Laser MSL-FN-589

Model #: MSL-FN-589

Description: All-solid-state single longitudinal mode blue laser at 589 nm MSL-FN-589 features ultra-compact, long lifetime, low cost and easy operation.

Application: DNA sequencing, flow cytometry, cell sorting, optical instrument, spectrum analysis, interference, measurement, holography, physics experiment, etc.



Specifications

Wavelength (nm)	589 ± 1	
Output Power (mW)	>1, 5, 10,....., 100	>100, ..., 200
Power Stability (rms, over 4 hours)	<1%, < 2%, 3%	<2%, 3%, 5%
Transverse Mode	TEM00	
Operating Mode	CW	
Longitudinal Mode	Single	
Spectrum Linewidth (nm)	<0.00001	
Coherent Length (m)	>50	
Amplitude Noise (rms, 1 ~ 20 MHz)	<1%, typical 0.5%	
M ² Factor	<1.2	
Warm-up Time (minutes)	<10	
Beam Diameter at Aperture (1/e ² , mm)	<2.5	
Beam Divergence, Full Angle (mrad)	<1.2	
Polarization Extinction Ratio	>100:1, vertical +/-5 degrees, (horizontal optional)	
Pointing Stability after Warm up (mrad)	<0.05	
Beam Height from Base Plate (mm)	27.4	
Laser Head Power Consumption (W)	<25 (40C°), 15 (typical)	
Max. Laser Head Base Plate Temperature(C°)	50	
Operating Temperature (C°)	10 ~ 40	
Power Supply (90-264VAC or 5V DC)	PSU-H-FDA	
Expected Lifetime (hours)	10000	
Warranty Period	1 year	

Note: Laser head must be placed on a heat sink with good head dissipation

Ordering Information: MSL-FN-589-A-B

A: maximum output power	B: power stability
30 - 30 mW	1 – 1%
50 - 50 mW	2 – 2%
100 - 100 mW	3 – 5%
150 – 150 mW	5 – 5%
200 – 200 mW	

MxL-III-589	PSU-III-FDA
 <p data-bbox="464 674 703 695">197(L)×70(W) ×50(H) mm³, 1.5kg</p>	 <p data-bbox="935 653 1198 674">275 (L) ×145(W) ×104 (H) mm³, 2.3kg</p>
