

MSL-FN-561-S/1~150mW



**FREQUENCY STABILIZED
SLM LASER AT 561nm**

Single longitudinal mode, frequency stabilized laser is made features of stable frequency and low frequency noise, which is used in optical frequency standards, gravitational wave detection, tests of fundamental physics, atomic clocks, high resolution spectrum, Laser Radar, precision measurement, etc.

SPECIFICATIONS

| | |
|---|---|
| Wavelength (nm) | 561±1 |
| Operating mode | CW |
| Output power (mW) | 1 - 150 |
| Power stability (rms, over 4 hours) | <1%, <2%, <3%, <5% |
| Transverse mode | TEM ₀₀ |
| Longitudinal mode | Single |
| Spectral linewidth (nm) | <0.00001 |
| Coherent length (m) | >50 |
| Noise of amplitude (rms, 1Hz~20MHz) | <1%, typical <0.5% |
| M ² factor | <1.2 (<1.1, optional) |
| Beam diameter at the aperture (1/e ² , mm) | <2.0 |
| Beam divergence, full angle (mrad) | <1.2 |
| Polarization ratio | >100:1, Vertical±5 degree (Horizontal Optional) |
| Frequency shift over 8 hours (MHz) | <±200 |
| Frequency shift with Temp (MHz/°C) | <200 |
| Warm-up time (minutes) | <5 |
| Pointing stability after warm-up (mrad) | <0.05 |
| Beam height from base plate at TC-01 (mm) | 84.7 |
| Extra heat sink | TC-01 |
| Operating temperature (°C) | 10~35 |
| Laser head consumption(W) | 20 (typical), <30 (40°C) (TC-01/Water cooling Optional) |
| Power supply (90-264VAC) | PSU-H-FDA |
| Expected lifetime (hours) | 10000 |
| Warranty | 1 year |



| MSL-FN-561-S | PSU-H-FDA | TC-01 HEAT SINK | TC-01 HEAT SINK POWER SUPPLY |
|---|---|--|---|
| | | | |
| 197(L)×70(W)×50(H) mm ³ , 1.5 kg | 275(L)×145(W)×104(H) mm ³ , 2.3 kg | 197(L)×117.5(W)×57.3(H) mm ³ , 1.6 kg | 277(L)×145(W)×106(H) mm ³ , 2.6 kg |