

MSL-FN-457/1~400mW



SINGLE LONGITUDINAL MODE BLUE LASER AT 457nm

All solid state single longitudinal mode blue laser at 457nm 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) | 457±1 | |
| Operating mode | CW | |
| Output power (mW) | >1, 5, 10, 20, ... , 150 | >150, 160, ... , 400 |
| Power stability (rms, over 4 hours) | <1%, <2%, <3% | <2%, <3%, <5% |
| Transverse mode | TEM ₀₀ | Near 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 | |
| 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) | |
| 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.

| MSL-FN-457 | PSU-H-FDA |
|--|--|
| <p>197(L)×70(W)×50(H) mm³, 2.0 kg</p> | <p>236(L)×145(W)×104(H) mm³, 2.3 kg</p> |