



MIL-S-1064/1~1500mW



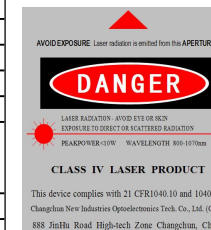
**LD PUMPED ALL-SOLID-STATE
INFRARED LASER
AT 1064 nm**

All solid state infrared laser at 1064 nm is made features of ultra compact, small size, wide operating temperature, good sealing, long lifetime, cost-effectiveness and easy operating, working under the pressure of 0.02kPa, which is used in scientific experiment, measurement, optical instrument, optical sensor, communication, spectrum analysis, etc.



SPECIFICATIONS

| Model | MIL-S-1064-A(Harsh condition) | | MIL-S-1064-B(Normal condition) | |
|---|---|-------------------|--|-------------------|
| Central wavelength (nm) | 1064±1 | | | |
| Operating mode | CW | | | |
| Output power (mW) | >1,5,10,...,400 | >400,500,...,1500 | >1,5,10,...,400 | >400,500,...,1500 |
| Power stability (rms, over 4 hours) | <1%,<2%,<3% | <2%,<3% | <1%,<2%,<3% | <2%,<3% |
| Transverse mode | TEM ₀₀ | | | |
| M ² factor | <1.2 | <1.5 | <1.2 | <1.5 |
| Beam diameter at the aperture(1/e ² ,mm) | 1.00±0.05 | 1.20±0.05 | 1.00±0.05 | 1.20±0.05 |
| Beam divergence, full angle (mrad) | <1.7 | <1.8 | <1.7 | <1.8 |
| Polarization ratio | >100:1 Horizontal±5 degree (Vertical Optional) | | | |
| Pointing stability after warm-up (mrad) | <0.05 | | | |
| Pointing stability Over Temp. (μrad/°C) | <8 | | | |
| Warm-up time (minutes) | <5 | | | |
| Beam height from base plate (mm) | 19 | | | |
| Power Consumption(W) | <40 | | | |
| Shock Tolerance(6ms) | 7g laterally,15g vertically | | | |
| IP Rating | IP67 | | IP65 | |
| Power supply(90-264VAC) | PSU-H-FDA | | PSU-A-DP PSU-A-FP PSU-III-OEM-97(5VDC) | |
| Operating temperature (°C) | 0-60 | | 10-35 | |
| Max. Heat Dissipation of Head(W) | 10W@50°C | | 4W@25°C | |
| Modulation | TTL on/off, 1Hz-1KHz, 1KHz-10KHz, 10KHz-30KHz; and Analog modulation option | | | |
| Expected lifetime (hours) | 10000 | | | |
| Warranty | 1 year | | | |



| MIL-S-1064 | PSU-A-D | PSU-A-F | PSU-III-OEM-97 |
|---|---|---|--|
| <p>100 (L) × 40 (W) × 40 (H) mm³, 0.36kg</p> | <p>162 (L) × 144 (W) × 70 (H) mm³, 0.6kg</p> | <p>162 (L) × 144 (W) × 55 (H) mm³, 0.5kg</p> | <p>94 (L) × 75 (W) × 49 (H) mm³, 0.23kg</p> |