

MDL-NS-635/1~200mW



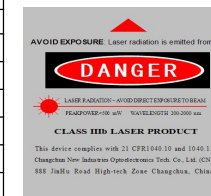
NANOSECOND PULSED RED DIODE LASER AT 635nm

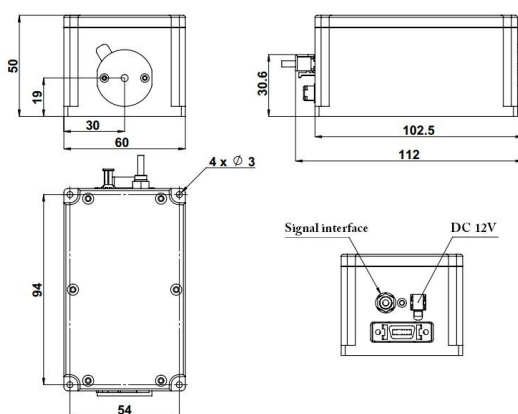
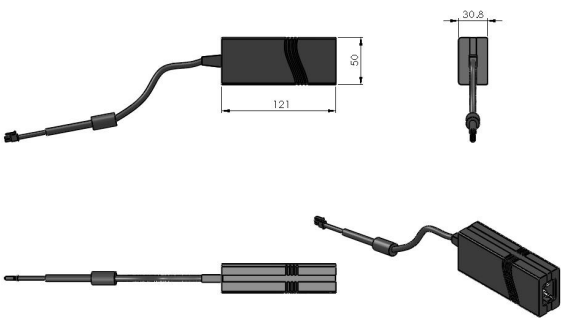
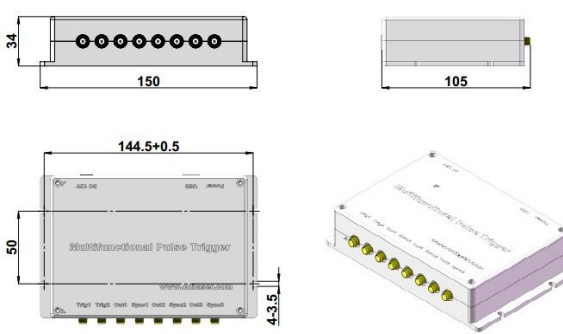
This series laser products with excellent material removal rate, are widely used in microelectronics, material processing, solar energy and medical equipment manufacturing, etc.



SPECIFICATIONS

| | | |
|---|---|-----------------------|
| Central wavelength (nm) | 635±7/-5 | |
| Output power@3.3VDC (mW, CW) | >1, 10, 20, ...,100 | >100, 110, ...,200 |
| | Power adjustable by software | |
| Power stability (rms, over 4 hours) | <3%, <2%, <1% | |
| Pulse width (FWHM) | >10ns, 20ns, ...,10ms | >10ns, 20ns, ...,10ms |
| Transverse mode | Near TEM ₀₀ | |
| Noise of amplitude(rms, CW) | <1% | |
| M ² factor | <1.2 | |
| Beam diameter at the aperture (1/e ² ,mm) | ~1.2 | |
| Beam divergence, full angle (mrad) | <1.0 | |
| Polarization ratio | >50:1 (>100:1, optional) Horizontal±5 degree (Vertical Optional) | |
| User trigger frequency (Multifunctional Pulse Trigger optional) | 1Hz-40MHz | 1Hz-25MHz |
| | 1Hz-25MHz by using CNI Multifunctional Pulse Trigger | |
| Rise Time (ns) | <4 | <10 |
| Fall Time (ns) | <3 | <3 |
| Modulation Depth (extinction ratio) | >1000000:1 | |
| Warm-up time (minutes) | <5 | |
| Beam height from base plate (mm) | 19 | |
| Operating temperature (°C) | 10~35 | |
| Input voltage | +12VDC | |
| Expected lifetime (hours) | 10000 | |
| Warranty | 1 year | |



| MDL-NS-635 | Optional Power Supply | Multifunctional Pulse Trigger |
|--|--|--|
|  <p>112(L) × 60(W) × 50(H) mm³, 0.5kg</p> |  <p>121(L) × 50(W) × 30.8(H) mm³, 0.3kg</p> |  <p>150(L) × 105(W) × 34(H) mm³, 0.5kg</p> |