

MDL-NS-830/1~120mW



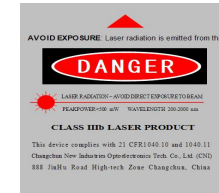
**NANOSECOND PULSED
INFRARED DIODE LASER
AT 830nm**

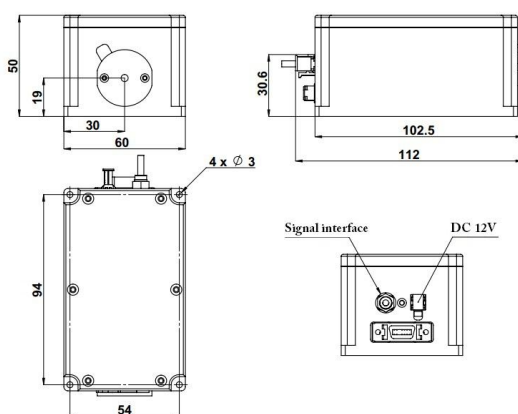
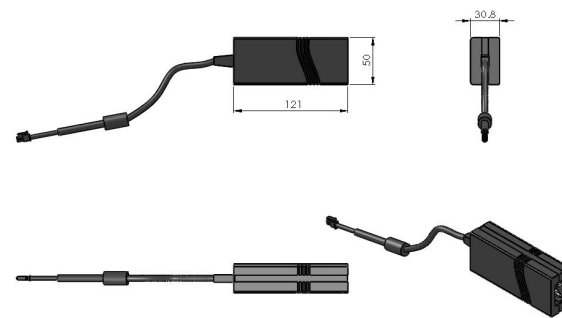
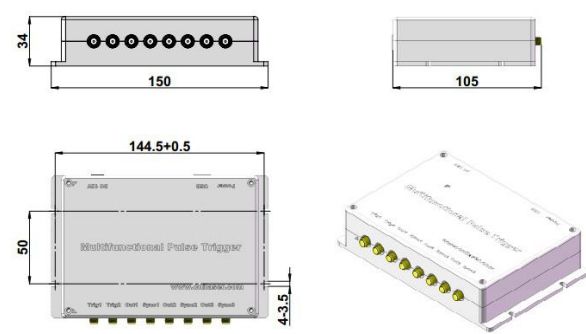
This series laser products with excellent material removal rate, are widely used in microelectronics, material processing, solar energy and medical equipment manufacturing, etc.



SPECIFICATIONS

| | |
|---|--|
| Central wavelength (nm) | 830±10 |
| Output power@3.3VDC (mW, CW) | >1, 10, 20, ...,120 |
| Power stability (rms, over 4 hours) | <1%, <2%, <3% |
| Pulse width (FWHM) | >10ns, 20ns, ...,10ms |
| Transverse mode | Near TEM ₀₀ |
| Noise of amplitude(rms, CW) | <1% |
| M ² factor | <1.5 |
| Beam diameter at the aperture (1/e ² ,mm) | ~3.0 |
| Beam divergence, full angle (mrad) | <1.0 |
| User trigger frequency (Multifunctional Pulse Trigger optional) | 1Hz-20MHz (1Hz-20MHz by using CNI Multifunctional Pulse Trigger) |
| Rise Time (ns) | <3 |
| Fall Time (ns) | <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-830 | 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> |