

MDL-NS-640/1~200mW



NANOSECOND PULSED RED DIODE LASER AT 640nm

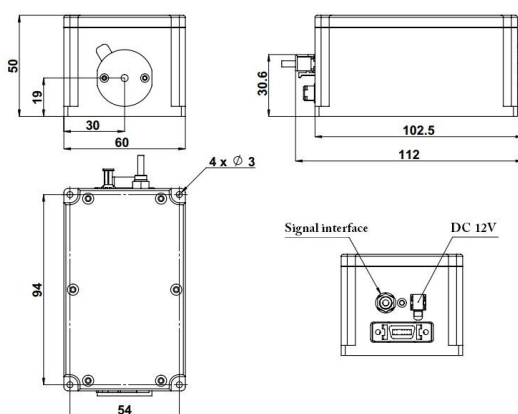
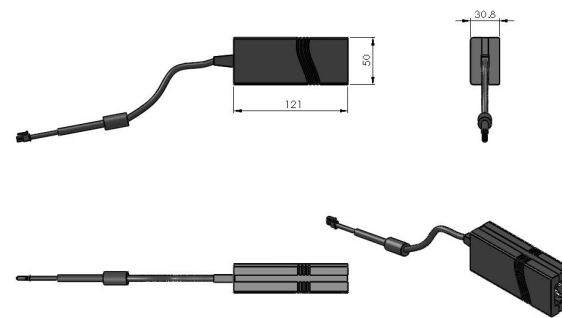
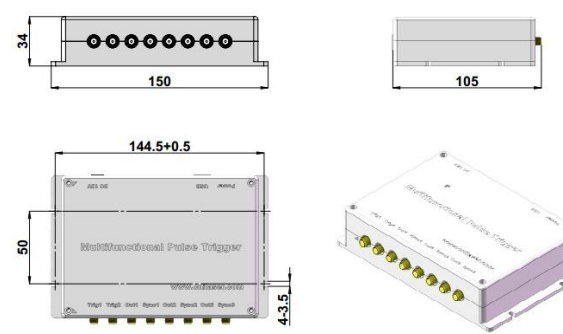
This series laser products with excellent material removal rate, are widely used in microelectronics, material processing, solar energy and medical equipment manufacturing, etc.



SPECIFICATIONS

Central wavelength (nm)	640±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-640	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>