



MDL-NS-980/1~300mW



**NANOSECOND PULSED
INFRARED DIODE LASER
AT 980nm**

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)	980±10	
Output power@3.3VDC (mW, CW)	>1, 10, 20, ...,100	>100, 150, 200, ...,300
	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	<1.5	
Beam diameter at the aperture (1/e ² ,mm)	~3.5	
Beam divergence, full angle (mrad)	<1.0	
User trigger frequency	1Hz-40MHz	1Hz-35MHz
(Multifunctional Pulse Trigger optional)	1Hz-25MHz by using CNI Multifunctional Pulse Trigger	
Rise Time (ns)	<3	<5
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-980	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>