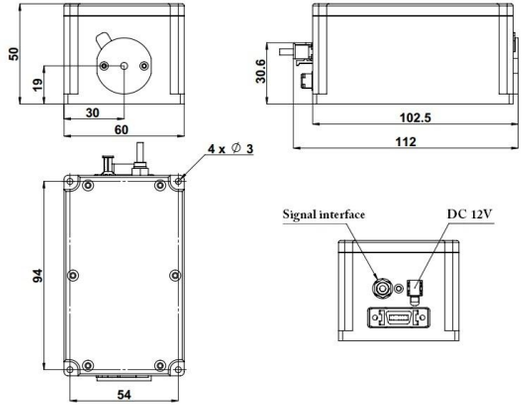
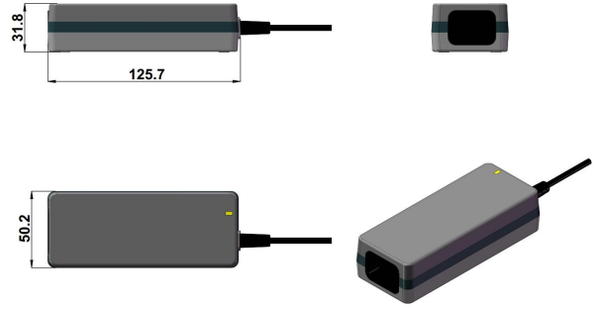
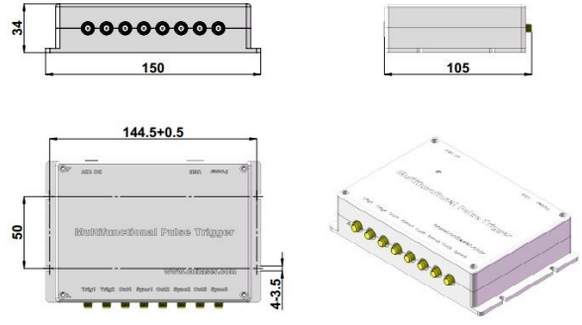
MDL-NS-637/1-200mW

NANOSECOND PULSED RED DIODE LASER AT 637nm

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)	637±5	
Operating mode	Pulsed	
Peak power (mW)[1]	1-100	100-200
Power stability (rms, 4 hours ± 3°C)	<2%, <1%, <0.5%	
Pulse width (FWHM)	10ns-10ms	10ns-10ms
Transverse mode	Near TEM_{00}	
M^2	<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)	
Rep. rate[2]	DC-40MHz	DC-25MHz
Rise Time (ns)	<4	<10
Fall Time (ns)	<3	<3
Modulation Depth (extinction ratio)	>1000000:1	
Warm-up time (minutes)	<5	
Cooled method	Conduction	
Beam height from base plate (mm)	19	
Operating temperature (°C)	10-35	
Operating voltage (VDC)	12V/3.34A	
Expected lifetime (hours)	>10000	

LASER HEAD (DRIVER Integrated)[3]	POWER SUPPLY (100-240VAC) optional	MULTIFUNCTIONAL PULSE TRIGGER optional
		
112 (L) ×60 (W) ×50 (H) mm³, 0.5kg	**125.7 (L) ×50.2 (W) ×31.8 (H) mm³, 0.3kg**	**150 (L) ×105 (W) ×34 (H) mm³, 0.5kg**

1 Any power level can be selected in this range.

2 Both internal and external triggers are acceptable. The internal trigger supports a frequency range of DC-25MHz.

3 RS232 control optional, output power adjustable 10-100% by software.

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