

NANO GREEN LASER  
**Excellent III 532 Series**

# 18W-35W

Nanosecond Green Laser



Laser wavelength

**532nm**

Pulse Width

**<16ns**

Pulse-to-Pulse Stability

**<3%rms**

## Application

It is particularly suitable for PE/PCB/FPC cutting, glass & sapphire cutting, drilling, scribing and cutting used in high precision micromachining areas.

PARAMETER	INDEX	DESCRIPTION
Laser wavelength	532nm	
Average Output Power	18-35W	@40kHz
Pulse Width	<16ns	@40kHz
Pulse Repetition Rate	10-200kHz	
Spatial Mode	TEM00	
$M^2$	<1.2	
Beam Diameter	2.2±0.2mm	Measured at window
Beam Full Divergence Angle	<0.5mrad	
Beam Circularity	>90%	
Pulse-to-Pulse Stability	<3%	RMS/@40kHz
Average Power Stability	<5%	RMS/8hr
Beam-Pointing Drift	<30μrad/°C	
Polarization Ratio	>100:1	
Polarization Orientation	Horizontal	
Operating Temp. & RH	10°C to 35°C <80%	
Storage Temp. & RH	-20°C to 65°C <90%	
Electricity Requirement	100-240VAC 50/60Hz	Single phase
Power Consumption	<800W	

Laser power and other characteristics can be optimized in different repetition frequency ranges;  
The temperature referred to is the ambient temperature.



Laser wavelength at 532nm, repetition rates cover a wide range(10kHz to 200kHz) ;



Exceptional beam quality ( $M^2 < 1.2$ ), absolutely assured in all repetition rates; relatively short pulse width <16ns@40K with little heat affected zone (HAZ);



Unique Q-switching technology, adapts a variety of control requirements of laser applications; longer laser lifespan and more stable operation;



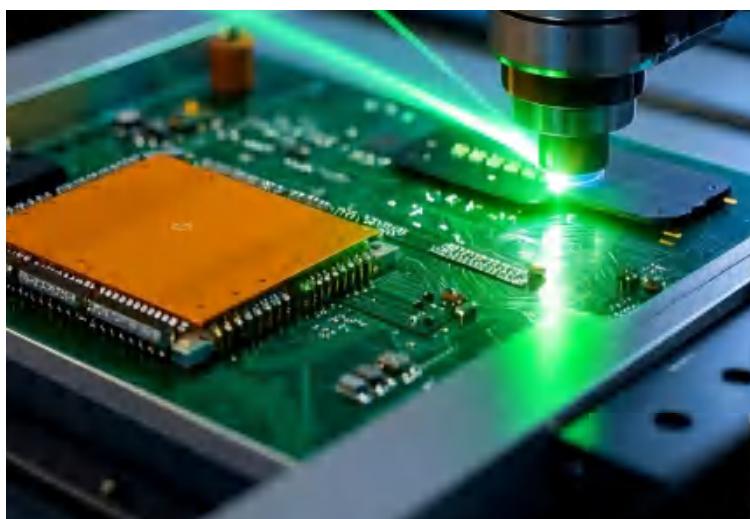
All-digital intelligent power control technology, easy to operate and convenient to monitor;



Support computer communication and external control of the laser via RS232;



All-in-one design, convenient for equipment integration.



PCB Cutting



Glass And Sapphire Cutting

Precision Drilling

Surface Processing



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