HAN'S COMPONENTS

UV Nanosecond Laser

ZG SERIES

ZG-NS-355-15

The new ZG series adopts intra-cavity frequency doubling technology for applications in precision marking processes. With its superb cost performance, it is widely used in the extreme manufacturing field.

▸ Application

- Small size, light weight and price-competitive
- Opto-mechanical integration design
- EM_{00} mode output
- Adjustable repetition rate

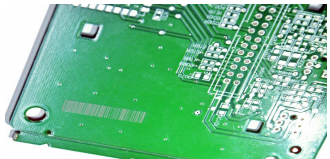
▸ Features

- High-end electronic products appearance logo
- PCB, EPC QR code marking
- Metal or non-metal plating removal
- Marking of air switches, low-voltage appliances (flame retardant materials)
- Food, PVC pipe, pharmaceutical packaging, cable wire (HDPE, PO, PP, etc.) material marking

▸ Sample Display


Wire marking


Mobile phone product logo mark


PCB QR code marking

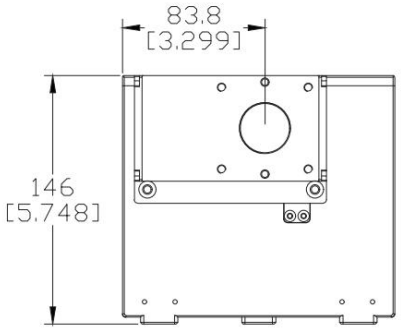

PCB cutting

Technical Parameters

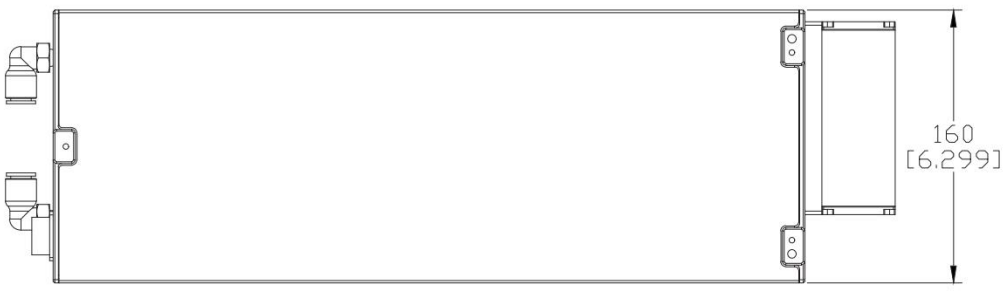
	ZG-NS-355-15
Optical Parameters	
Wavelength	355 nm
Max. Power	15 W@30 kHz
Repetition Rate	30 kHz~200 kHz
Pulse Width	20 ns-100 ns
Pulse Energy Stability (rms)	< 3% rms
Power Stability	< 2% rms
Beam Characteristics	
Spatial Mode	TEM_{00}
Beam Quality	$M^2 < 1.3$
Polarization Ratio	>100:1(horizontal)
Beam Diameter	0.8 mm ± 0.2 mm
Divergence Full Angle ($1/e^2$)	< 2 mrad
Circularity	> 90%
Beam Pointing Stability	≤ ± 25 μrad/℃
Working Conditions	
Power Supply	24VDC ± 1V; ≥ 400W switching power supply
Warm-up Time	Standby to ready < 10 minutes; cold start to readiness < 30 minutes
Temperature Range	15~30°C during working hours; 0~50°C during non-working hours
Temperature Range	10~70%, non-condensation
Cooling Requirements	Water cooling, cooling capacity ≥ 400W, accuracy ± 0.1°C, flow rate ≥ 6L/min
Physical Properties	
Laser Dimensions	493mm×160mm×146mm（L x W x H）
Laser Weight	16 kg

▶ All specifications are typical data and subject to change without notice due to product improvements.

Laser Dimensions (mm)



Front View



Top View

Side View