

1-6GHz Broadband Power Amplifier

P/N: MZPA0106GF100W



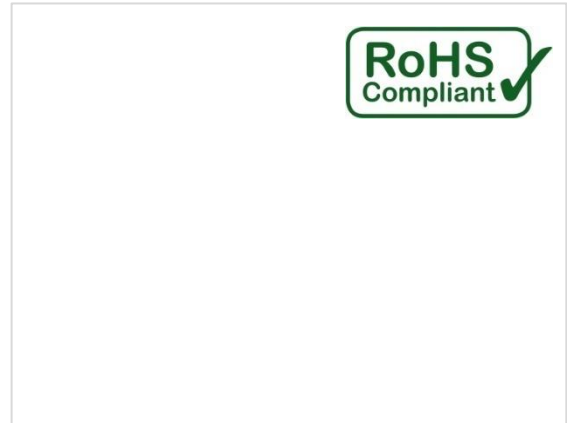
■ Features

- Ultra Wide Band: 1-6GHz
- Gain: 53dB
- Output Power Psat: 50dBm
- Bias: Vd=30V;Id=10A

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

■ Electrical Specifications +25 °C



Parameter	Min.	Typ.	Max	Units
Frequency Range		1-6		GHz
Small Signal Gain	50	53		dB
Power Gain Flatness		± 4	± 5	dB
Input /Output VSWR		1.5	2.0	-
Output Power for 1 dB Compression (P1dB)		47		dBm
Saturated Output Power (Psat)		50		dBm
Input Max Power(no damage)			10	dBm
2-Tone Intermodulation (IMD) 40dBm/Tone, $\Delta = 1$ MHz		-30		dBc
Harmonics		-20		dBc
Spurious	-60			dBc
DC Current (Vcc=+30V) (@Pout=100W)		10	13	A
Impedance		50		Ω
TTL Control "Low"/"High"	Low: Enable / High: Disable			
Control Connector DB9	Pin: 1,2,3 VD; 4 TTL, 5 Power detection;7,8,9 GND			
Input Output Connector	SMA-Female/SMA-Female			
Material	Aluminium			
Weight	1500g			
Dimension	300X220X70mm With Heatsink and Fan			

MICZEN THCHNOLOGIES CO.,LTD.

Phone: +86 28 65003621 | E-mail: sales@miczen.com | Web: www.miczen.com

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■ Environmental Conditions

Operational Temperature	-35°C~+70°C	Vibration	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Storage Temperature	-55°C~+125°C	Shock	20G for 11msc half sin wave, 3 axis both directions
Executive Standard	MIL-STD-810G	Humidity	100% RH at 35c, 95%RH at 40°C

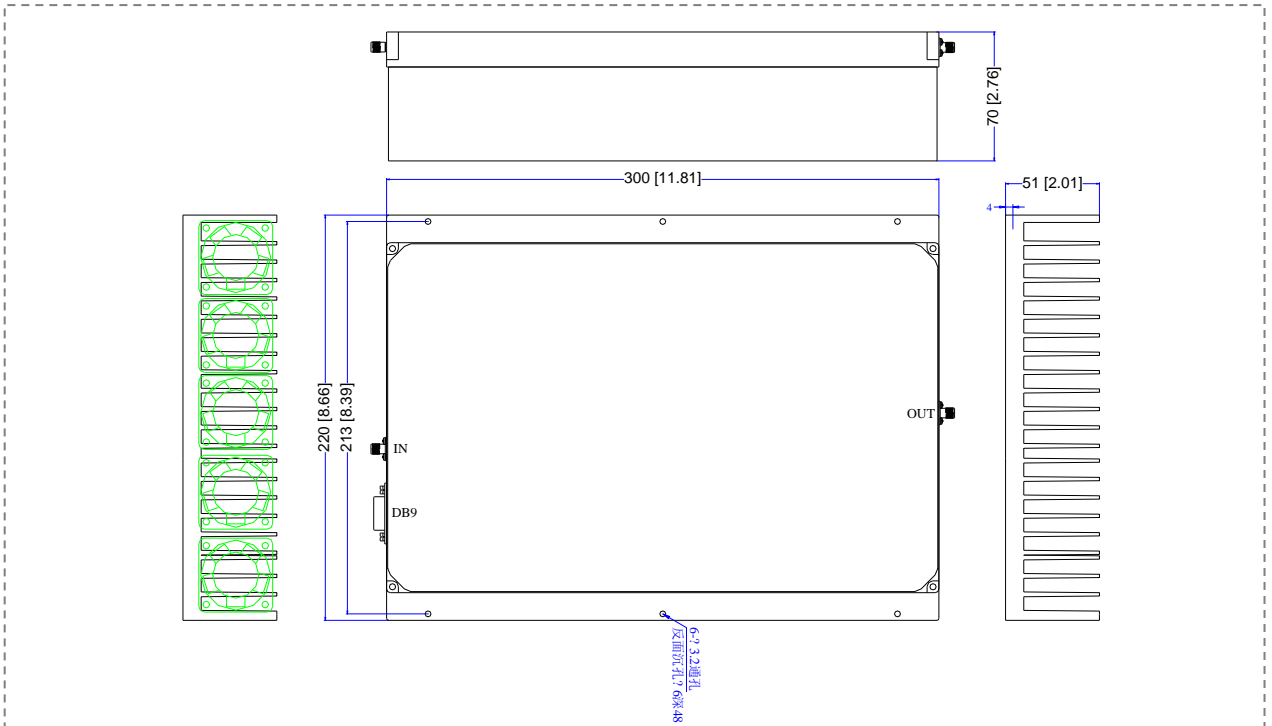
■ Absolute Maximum Ratings

Supply Bias Voltage	+32V
RF INPUT POWER	+10dBm
ESD sensitivity (HBm)	Class 0, passed 150V



■ Outline Drawing

All Dimensions in mm (inches) Tolerance ± 0.25 (0.01)



*****Heat Sink required during operation*****

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