

0.5-4.2GHz 5W Power Amplifier

P/N: MZPA005042GF5W



■ Features

- Ultra Wide Band: 0.5-4.2GHz
- Gain: 25dB
- Output Power Psat: 36dBm
- Bias: Vd=28V; Id=1.5A

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

■ Electrical Specifications +25°C



Parameter	Min.	Typ.	Max	Units
Frequency Range	0.5-4.2			GHz
Small Signal Gain	20	25		dB
Power Gain Flatness		±1	±1.5	dB
Input VSWR		1.5	2.0	-
Input VSWR		2.5	3.3	-
Output Power for 1 dB Compression (P1dB)	31	34		dBm
Saturated Output Power (Psat)	33	36		dBm
Input Max Power(no damage)			20	dBm
Noise Figure		10	15	dB
Non-Harmonic Spurious at Pout=4W	-60			dBc
Second and Third Harmonics at Pout=2W		15		dBc
OIP3	40	44		dBc
DC Supply Voltage		28	30	V
DC Current (Vcc=+28V) (@Pout=5W)		1.5	2.5	A
Impedance	50			Ω
Control Connector DB9	Pin: 1,2,3 4,5 NC; 6,7 Vd, 8,9 GND			
Input Output Connector	SMA-Female			
Material	Aluminium			
Weight	1000g			
Dimension	165X132X66mm With Heatsink and Fan			

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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

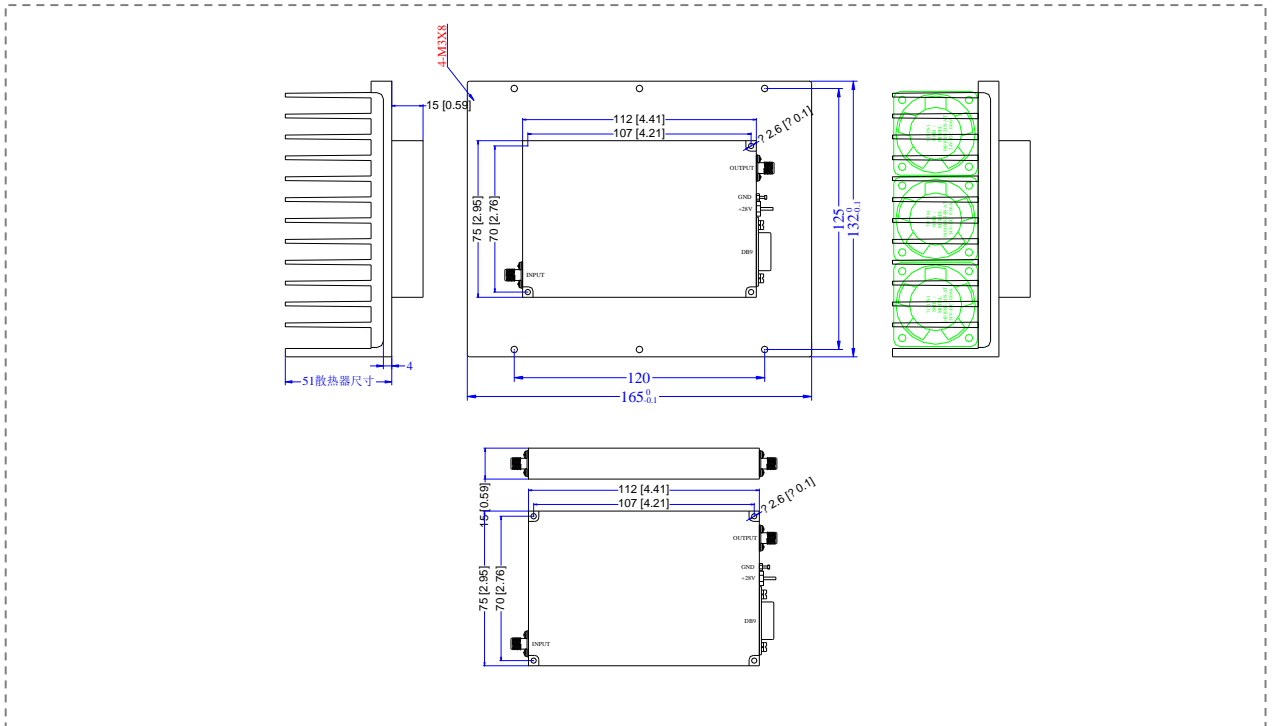
■ Absolute Maximum Ratings

Supply Bias Voltage	+32V
RF INPUT POWER	+20dBm
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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