

1-6GHz 50W Power Amplifier

P/N: MZPA0106GA50W



■ Features

- Ultra Wide Band: 1-6GHz
- Gain: 47dB
- Output Power Psat: 47dBm
- Bias: Vd=30V;Id=4A

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

■ Electrical Specifications +25°C



Parameter	Min.	Typ.	Max	Units
Frequency Range		1-6		GHz
Small Signal Gain	45	47		dB
Gain Flatness		±2.5	±5	dB
Input VSWR		1.5	2.0	-
Output Power for 1 dB Compression (P1dB)	45	46		dBm
Saturated Output Power (Psat)		47		dBm
Harmonic Rejection		13		dB
Spurious		-60		dBc
Input Max Power(no damage)			5	dBm
DC Current (Vcc=+28~30V) (@Pout=50W)		4000	5000	mA
Impedance		50		Ω
Input Output Connector		SMA-Female/SMA-Female		
Material		Aluminium		
Weight		700g		
Package Sealing		General Sealing (Standard)		

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■ Environmental Conditions

Operational Temperature	-30°C~+70°C	Vibration	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Storage Temperature	-45°C~+85°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

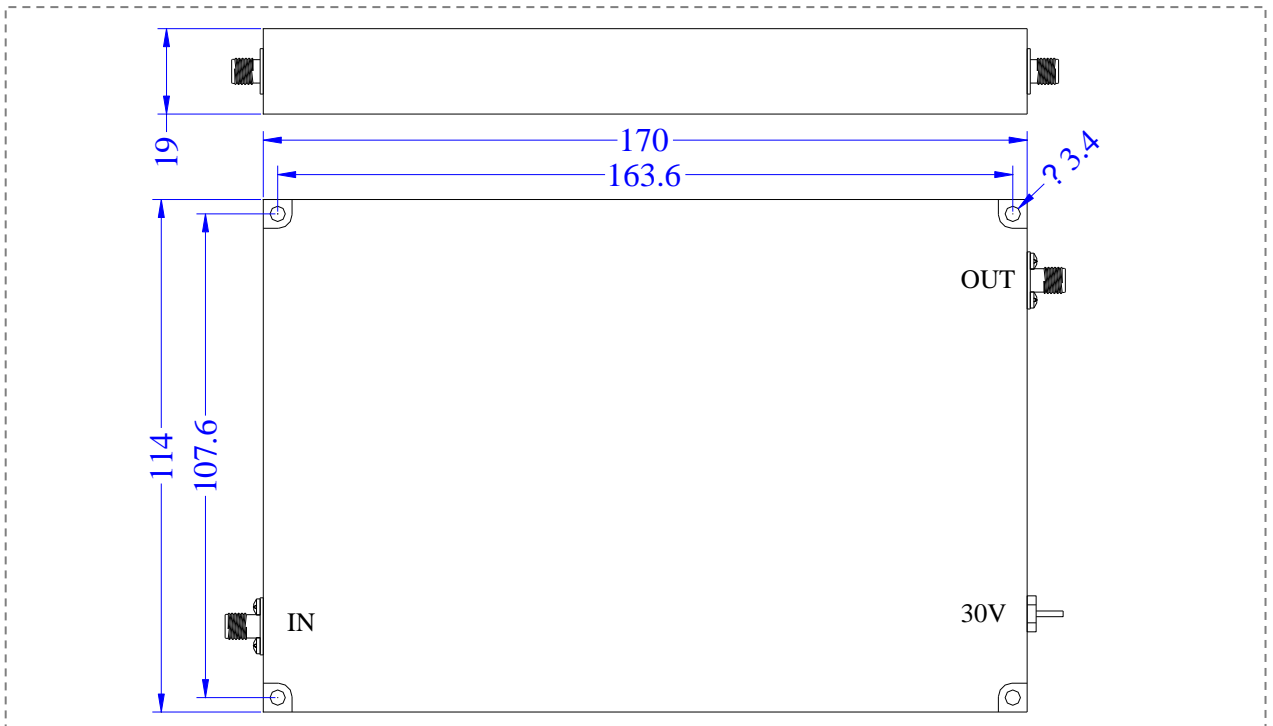
■ Absolute Maximum Ratings

Supply Bias Voltage	+32V
RF INPUT POWER	+5dBm
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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