

# 7-12GHz Broadband Power Amplifier

P/N: MZPA0712GA5W



## ■ Features

- Ultra Wide Band: 7-12GHz
- Gain: 38dB
- Output Power P-1: 37dBm
- Bias: Vd=28V;Id=2A

## ■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

## ■ Electrical Specifications +25 °C



Parameter	Min.	Typ.	Max	Units
Frequency Range		7-12		GHz
Small Signal Gain	35	38		dB
Gain Flatness		±1.5	±2.5	dB
Input/Output VSWR		1.5	2.0	-
Output Power for 1 dB Compression (P1dB)	36	37		dBm
Saturated Output Power (Psat)		38		dBm
Harmonic Rejection		15		dB
Noise Figure		6		dB
Input Max Power(no damage)			10	dBm
Internally Generated Spurious		-60		dBc
DC Current (Vcc=+28V) (@Pout=5W)		2		A
Impedance		50		Ω
Input Output Connector		SMA-Female/SMA-Female		
Material		Aluminium		
Weight		300g		
Dimension		85X50X12mm		

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## ■ Environmental Conditions

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

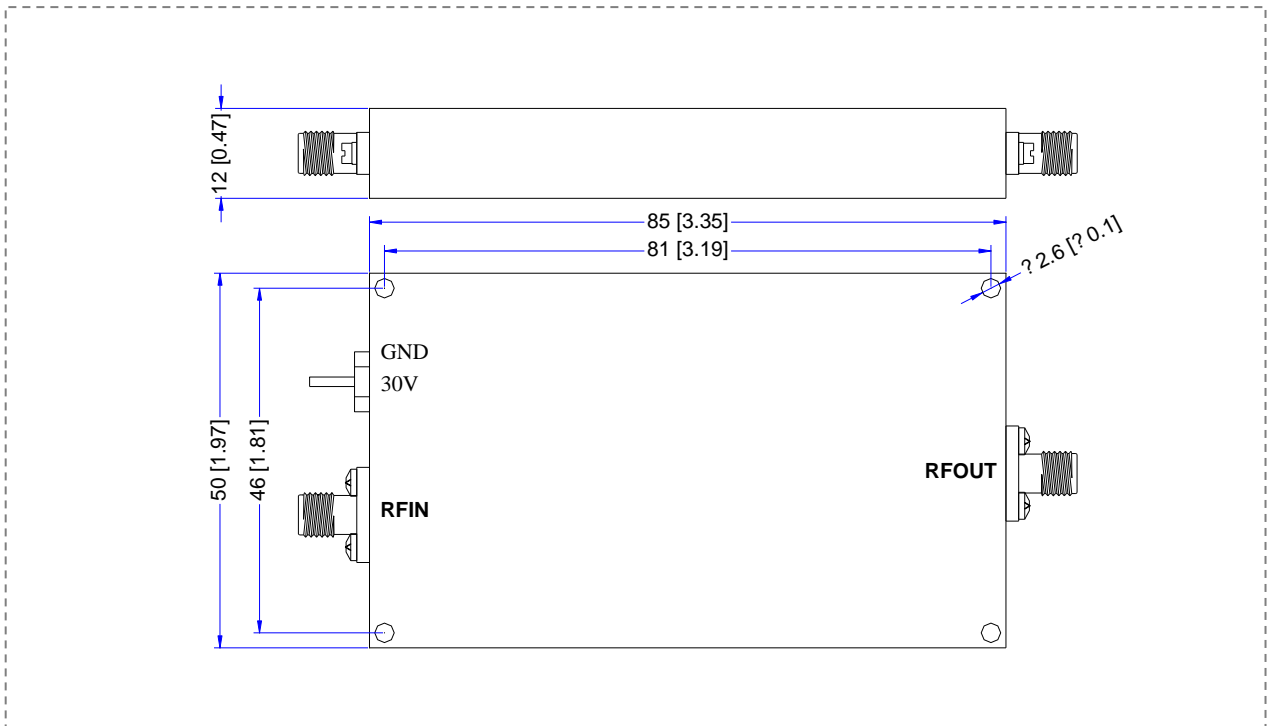
## ■ Absolute Maximum Ratings

<b>Supply Bias Voltage</b>	+30V
<b>RF INPUT POWER</b>	+10dBm
<b>ESD sensitivity (HBm)</b>	Class 0, passed 150V



## ■ Outline Drawing

All Dimensions in mm ( inches ) Tolerance  $\pm 0.25$  ( 0.01 )



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

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