

# 18-43GHz Broadband Power Amplifier

P/N: MZPA1843GB0.3W



## ■ Features

- Ultra Wide Band: 18-43GHz
- Gain: 18dB
- Output Power Psat: 25dBm
- Bias: Vd=12V;Id=0.4A

## ■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

## ■ Electrical Specifications +25°C



Parameter	Min.	Typ.	Max	Units
Frequency Range		18-43		GHz
Small Signal Gain	15	18		dB
Gain Flatness		±2		dB
Input VSWR		2.0		-
Output VSWR		2.0		-
Output Power for 1 dB Compression (P1dB)	23	25		dBm
Saturated Output Power (Psat)		26		dBm
Spurious		-60		dBc
Input Max Power(no damage)			10	dBm
DC Current (Vcc=9+15V) (@Pout=0.3W)		0.4	0.5	A
Impedance		50		Ω
Input Output Connector		2.92mm-Female		
Material /Finishing		Aluminium/Gold Painting		
Weight		100g		
Dimension		20X30X8mm		
Package Sealing		General Sealing (Standard) Hermetically sealed(Optional)		

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## ■ Environmental Conditions

<b>Operational Temperature</b>	-45°C~+85°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

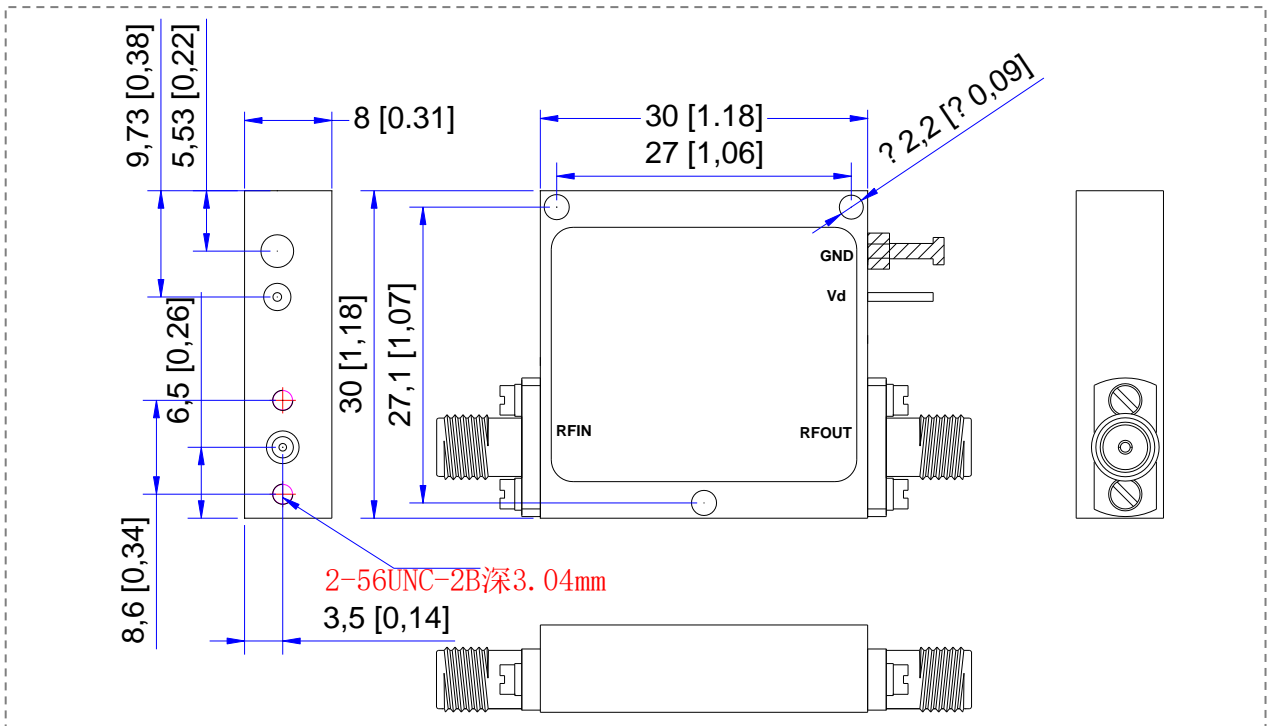
## ■ Absolute Maximum Ratings

<b>Supply Bias Voltage</b>	+15V
<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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