

# 18-23GHz Broadband Power Amplifier

## P/N: MZPA1823GA1.5W



### ■ Features

- Ultra Wide Band: 18-23GHz
- Gain: 21dB
- Output Power Psat: 32dBm
- Bias: Vd=12V;Id=0.9A

### ■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

### ■ Electrical Specifications +25 °C



Parameter	Min.	Typ.	Max	Units
Frequency Range		18-23		GHz
Small Signal Gain		21		dB
Gain Flatness		±2.0		dB
Input VSWR		2.0		-
Output VSWR		2.0		-
Output Power for 1 dB Compression (P1dB)		30		dBm
Saturated Output Power (Psat)		32		dBm
Spurious		-60		dBc
Input Max Power(no damage)			15	dBm
DC Current (Vcc=+12V)		500	900	mA
Impedance		50		Ω
Input Output Connector		2.92mm-Female		
Material /Finishing		Aluminium/Gold Painting		
Weight		200g		
Package Sealing		General Sealing (Standard)		

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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

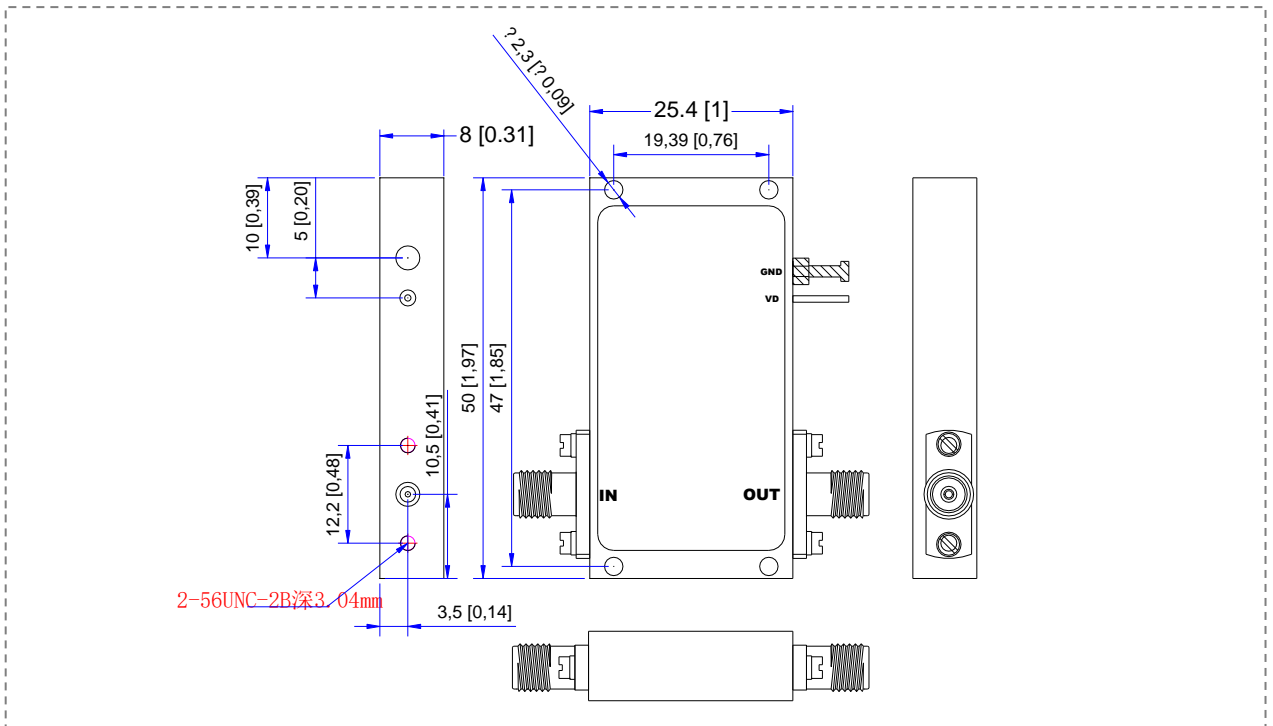
### ■ Absolute Maximum Ratings

<b>Supply Bias Voltage</b>	+15V
<b>RF INPUT POWER</b>	15dBm
<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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