

0.3-18GHz Broadband Power Amplifier

P/N: MZPA00318GA1W



■ Features

- Ultra Wide Band: 0.3-18GHz
- Gain: 37dB
- Output Power: 33dBm
- High Output IP3: 40dBm

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

■ Electrical Specifications +25 °C



Parameter	Min.	Typ.	Max	Units
Frequency Range		0.3-18		GHz
Gain		37		dB
Gain Flatness		±2.5		dB
Input VSWR		2.0		-
Output VSWR		2.0		-
Noise Figure		5		dB
Output Power for 1 dB Compression (P1dB)	30			dBm
Saturated Output Power (Psat)		31		dBm
Second Harmonic		-15	-13	dBc
Spurious		-60		dBc
Input Max Power(no damage)			5	dBm
DC Current (Vcc=+12v)@(P1dB)		800	900	mA
Impedance		50		Ω
Input Output Connector		SMA-Female/SMA-Female		
Material/Finishing		Aluminium/Conductive oxide		
Weight		50g		
Package Sealing		General Sealing (Standard)		

MICZEN THCHNOLOGIES CO.,LTD.

Phone: +86 28 65003621 | E-mail: sales@miczen.com | Web: www.miczen.com

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■ Environmental Conditions

Operational Temperature	-45°C~+85°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

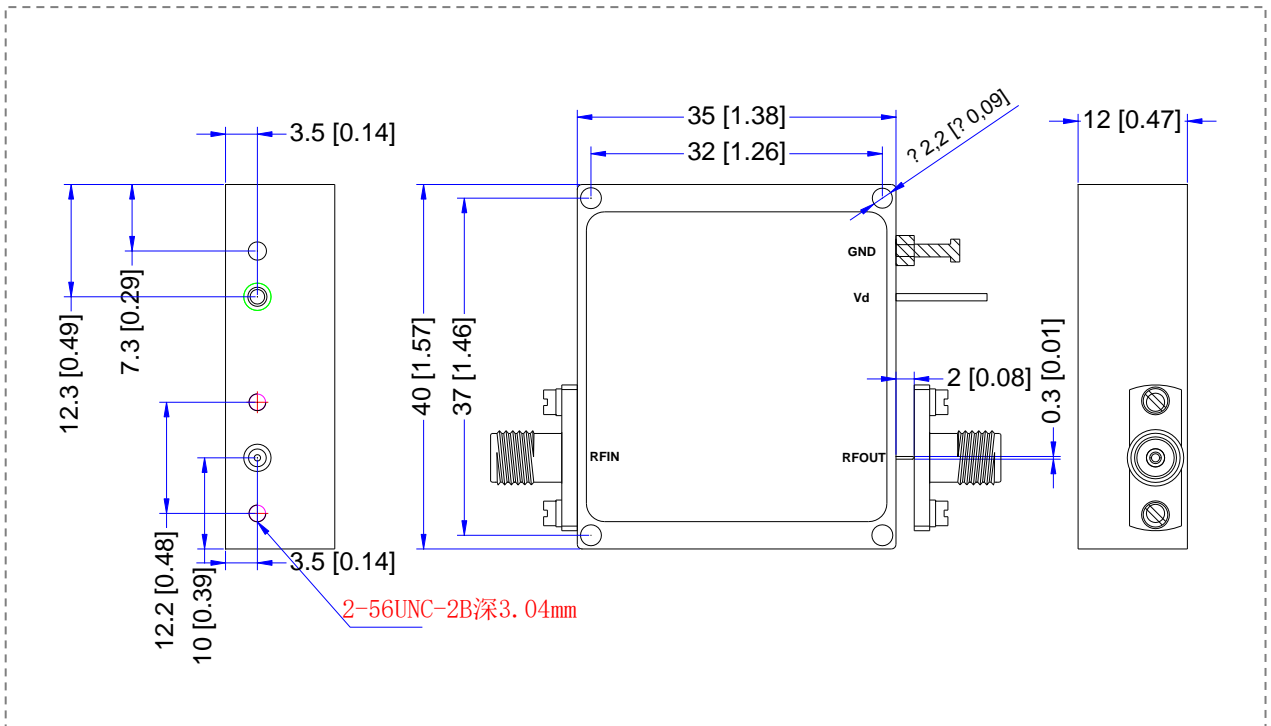
■ Absolute Maximum Ratings

Supply Bias Voltage	+15V
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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