

0.4-0.45GHz 1W Power Amplifier

P/N: MZPA0040045GA1W



■ Features

- Ultra Wide Band: 0.4-0.45GHz
- Gain: 20dB
- Output Power Psat: 31dBm
- Bias: Vd=12V;Id=0.2A

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

■ Electrical Specifications +25°C



Parameter	Min.	Typ.	Max	Units
Frequency Range	0.4-0.45			GHz
Small Signal Gain		20		dB
Gain Flatness		±1		dB
Input VSWR/Output VSWR		2.5		-
Output Power for 1 dB Compression (P1dB)	30			dBm
Saturated Output Power (Psat)		31		dBm
Spurious		-60		dBc
Input Max Power(no damage)			15	dBm
DC Current (Vcc=+12V)		0.2		A
Impedance	50			Ω
Input Output Connector	SMA-Female			
Material	Aluminium			
Weight	-			
Dimension	35X40X12mm			

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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

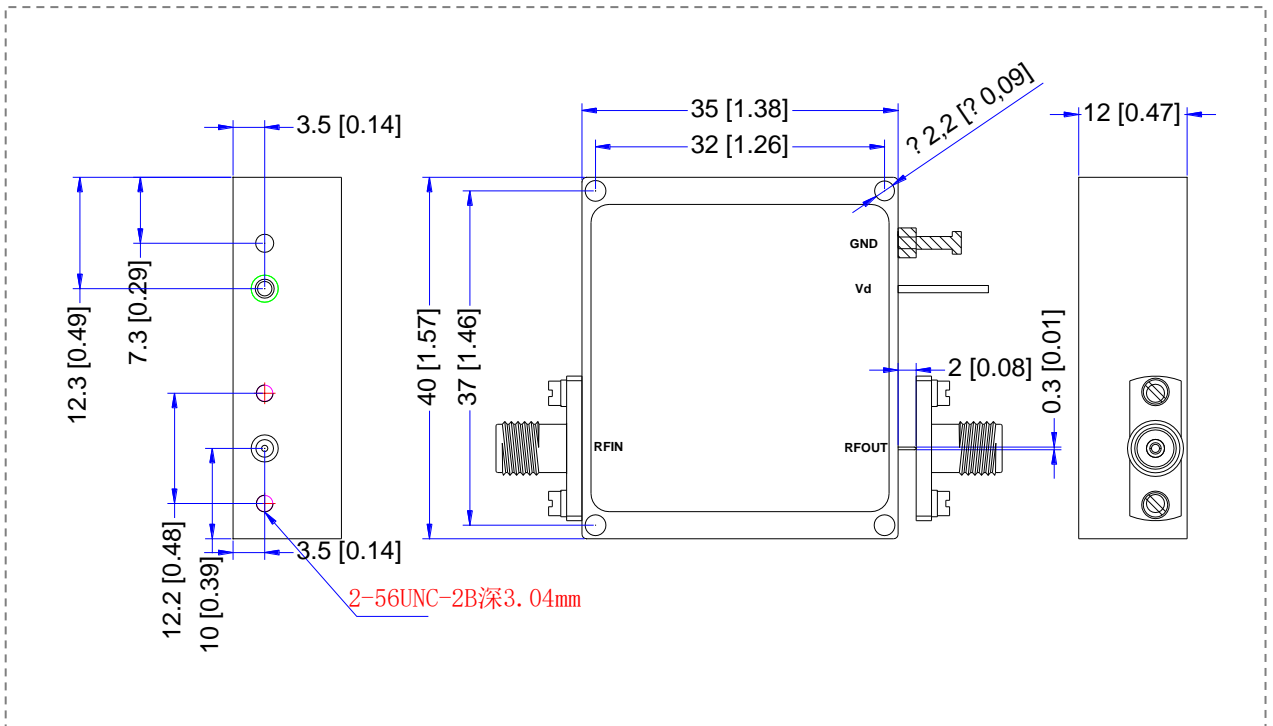
■ Absolute Maximum Ratings

Supply Bias Voltage	+15V
RF INPUT POWER	15dBm
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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