

12-18GHz Broadband Power Amplifier

P/N: MZPA1218GA2W



■ Features

- Ultra Wide Band: 12-18GHz
- Gain: 36dB
- Output Power Psat: 33dBm
- Bias: Vd=12V; Id=2A

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

■ Electrical Specifications +25 °C



Parameter	Min.	Typ.	Max	Units
Frequency Range		12-18		GHz
Small Signal Gain	33	36		dB
Gain Flatness		±1.5		dB
Input VSWR		1.8		-
Output VSWR		1.8		-
Output Power for 1 dB Compression (P1dB)	31			dBm
Saturated Output Power (Psat)	33	34		dBm
Spurious		-60		dBc
Input Max Power(no damage)			10	dBm
DC Current (Vcc=12V) (@Pout=2W)		1.5	2	A
Impedance		50		Ω
Input Output Connector		SMA-Female/SMA-Female		
Material /Finishing		Aluminium/Gold Painting		
Weight		-		
Dimension		40X35X12mm		

MICZEN THCHNOLOGIES CO.,LTD.

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

12-18GHz Broadband Power Amplifier

P/N: MZPA1218GA2W



■ 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

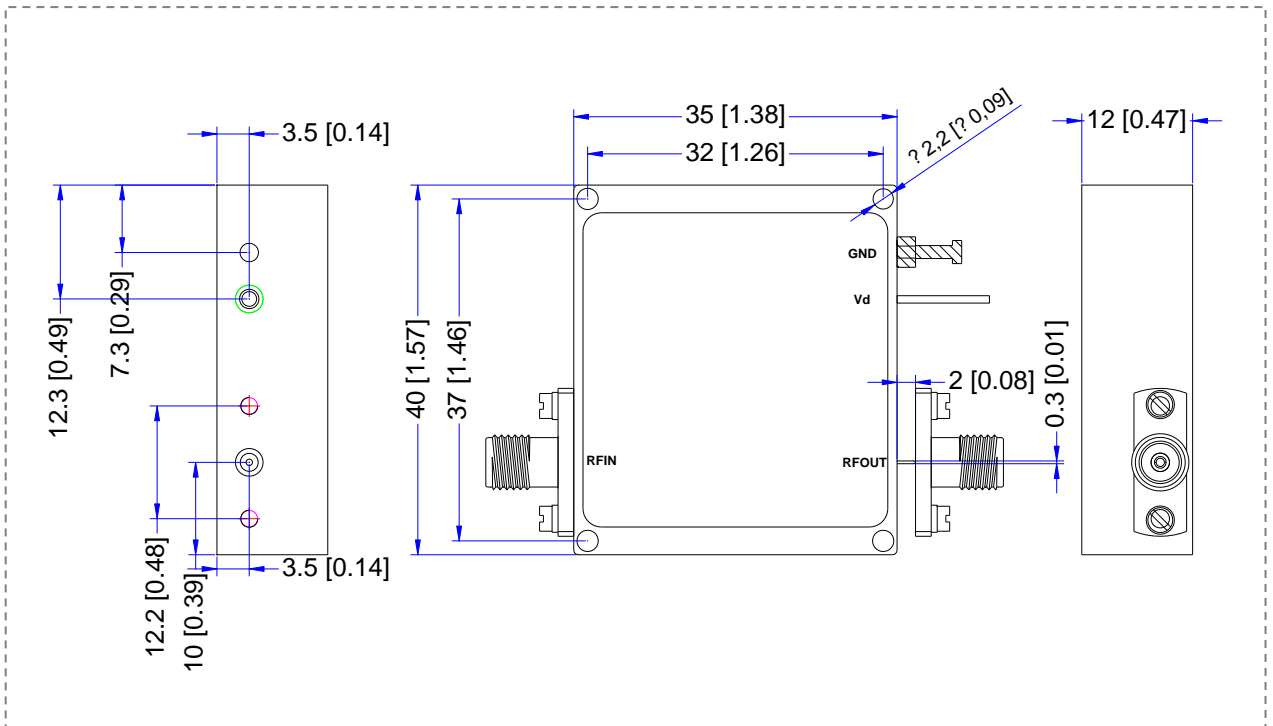
■ Absolute Maximum Ratings

Supply Bias Voltage	+13V
RF INPUT POWER	10dBm
ESD sensitivity (HBm)	Class 0, passed 150V



■ Outline Drawing

All Dimensions in mm (inches) Tolerance ± 0.25 (0.01)



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

MICZEN THCHNOLOGIES CO.,LTD.

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