

18-40GHz Broadband Power Amplifier

P/N: MZPA1840GA0.5W



■ Features

- Ultra Wide Band: 18-40GHz
- Gain: 35dB
- Output Power Psat: 27dBm
- Bias: Vd=12V;Id=1A

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

■ Electrical Specifications +25 °C



Parameter	Min.	Typ.	Max	Units
Frequency Range		18-40		GHz
Small Signal Gain	30	35		dB
Gain Flatness		±2.5		dB
Input VSWR		2.0		-
Output VSWR		2.0		-
Output Power for 1 dB Compression (P1dB)		27		dBm
Saturated Output Power (Psat)	27	28		dBm
Noise Figure		6		dB
Spurious		-60		dBc
Input Max Power(no damage)			0	dBm
DC Current (Vcc=+12V) (@Pout=0.5W)		0.9	1.2	A
Impedance		50		Ω
Input Output Connector		2.92mm-Female		
Material /Finishing		Aluminium/Gold Painting		
Weight		200g		
Dimension		50X45X12mm		

MICZEN THCNOLOGIES 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

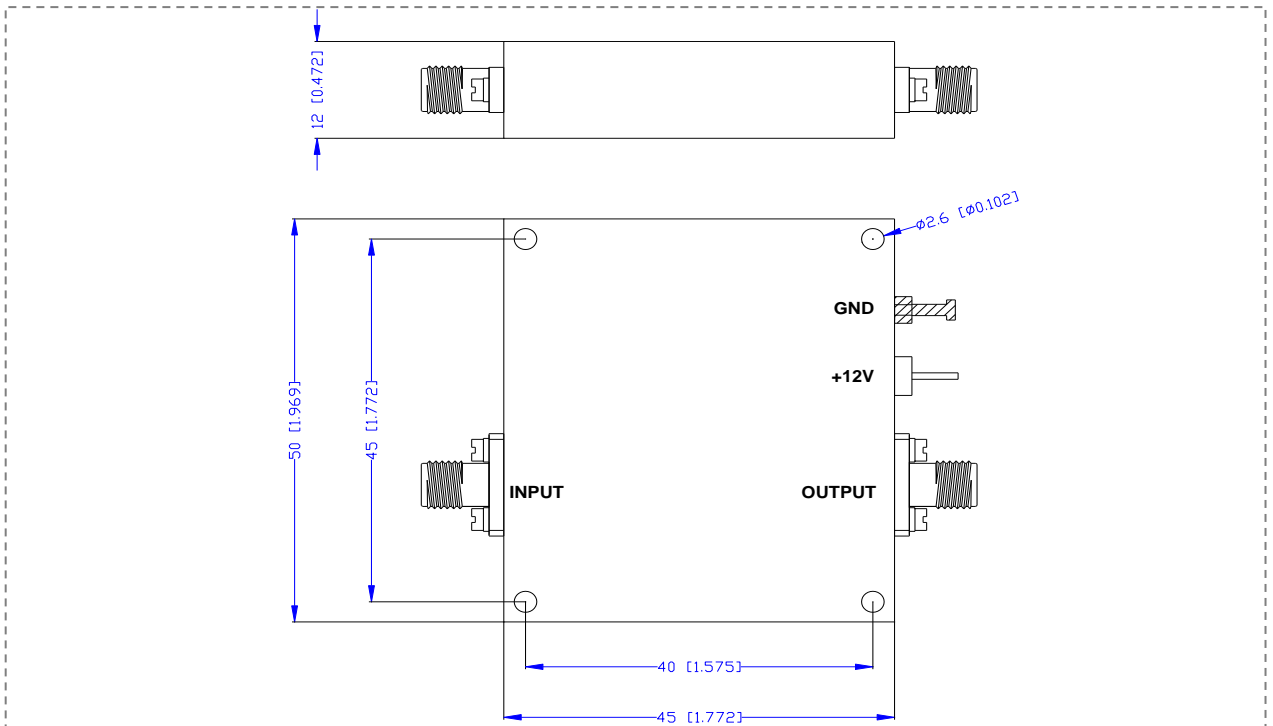
■ Absolute Maximum Ratings

Supply Bias Voltage	+15V
RF INPUT POWER	0dBm
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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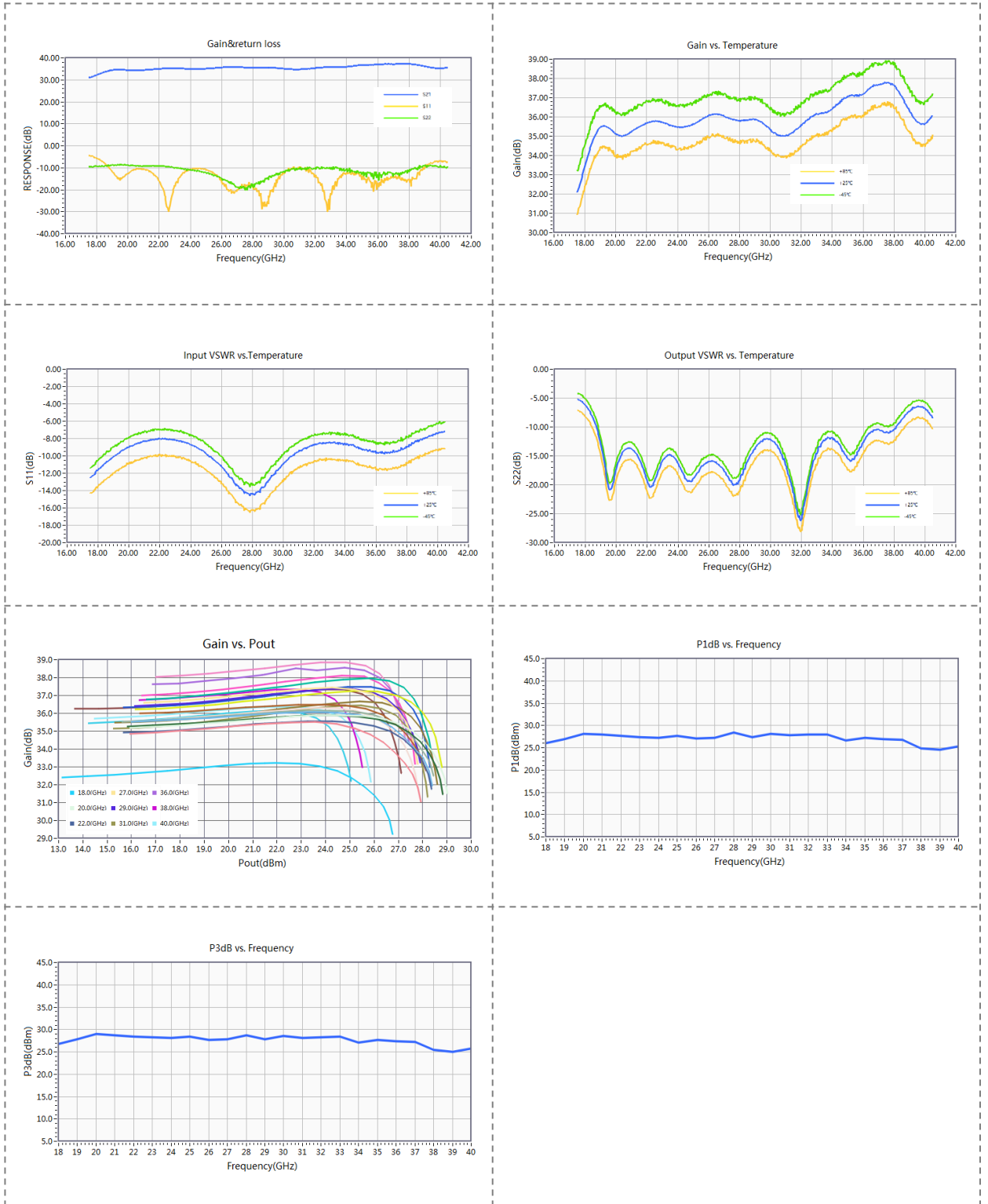
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Performance Plot



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