

# 18-40GHz 0.5W Power Amplifier

P/N: MZPA1840GA0.5W



## Description:

The power amplifier is a 0.5W power amplifier with a typical small signal gain of 35 dB across the frequency range of 18 to 40 GHz. The typical output power P-1 27dBm. The DC power requirement for the amplifier is +12 VDC/1.2 A. Accept customization according to different needs.



- Radar Systems
- Communication Systems
- Receivers Systems

## Electrical Specifications ( +25°C ) :

Parameter	Min.	Typ.	Max.	Units
Frequency Range		18-40		GHz
Gain	30	35		dB
Gain Flatness		±2.5		dB
Input VSWR		2.0		-
Output VSWR		2.5		-
Output Power for (P1dB)	24	27		dBm
Output Power Psat	25	28		dBm
Spurious		60		dBc
Noise Figure		7.5		dB
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/2.92mm-Female			
Material	Aluminium\Gold Painting			
Weight	200g			
Package Sealing	General Sealing (Standard)			

## Environmental Specifications:

- ※ Operational Temperature -25°C~+85°C
- ※ Storage Temperature -55°C~+125°C



OBSERVE  
PRECAUTIONS ELECTROSTATIC  
SENSITIVE DEVICES

MICZEN THCHNOLOGIES CO.,LTD.

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

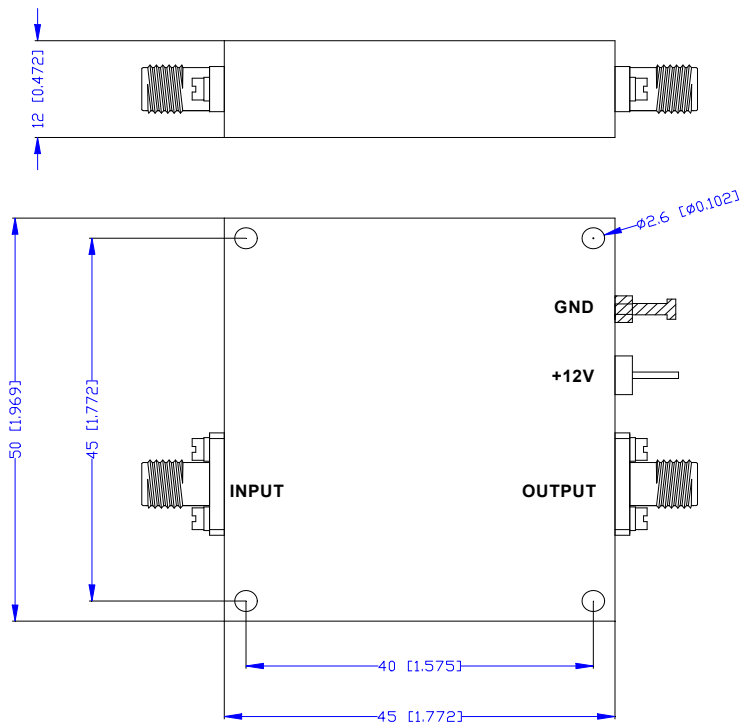
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## ■ Outline Drawing

All Dimensions in mm (inches) Tolerance  $\pm 0.25$  (0.01)



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

### NOTE:

1. The product is designed to meet environmental ratings but not tested. If you need to test environmental condition, please contact our sales department.
2. Miczen technologies co., Ltd. reserves the right to change the above information without notice.

**MICZEN THCHNOLOGIES CO.,LTD.**

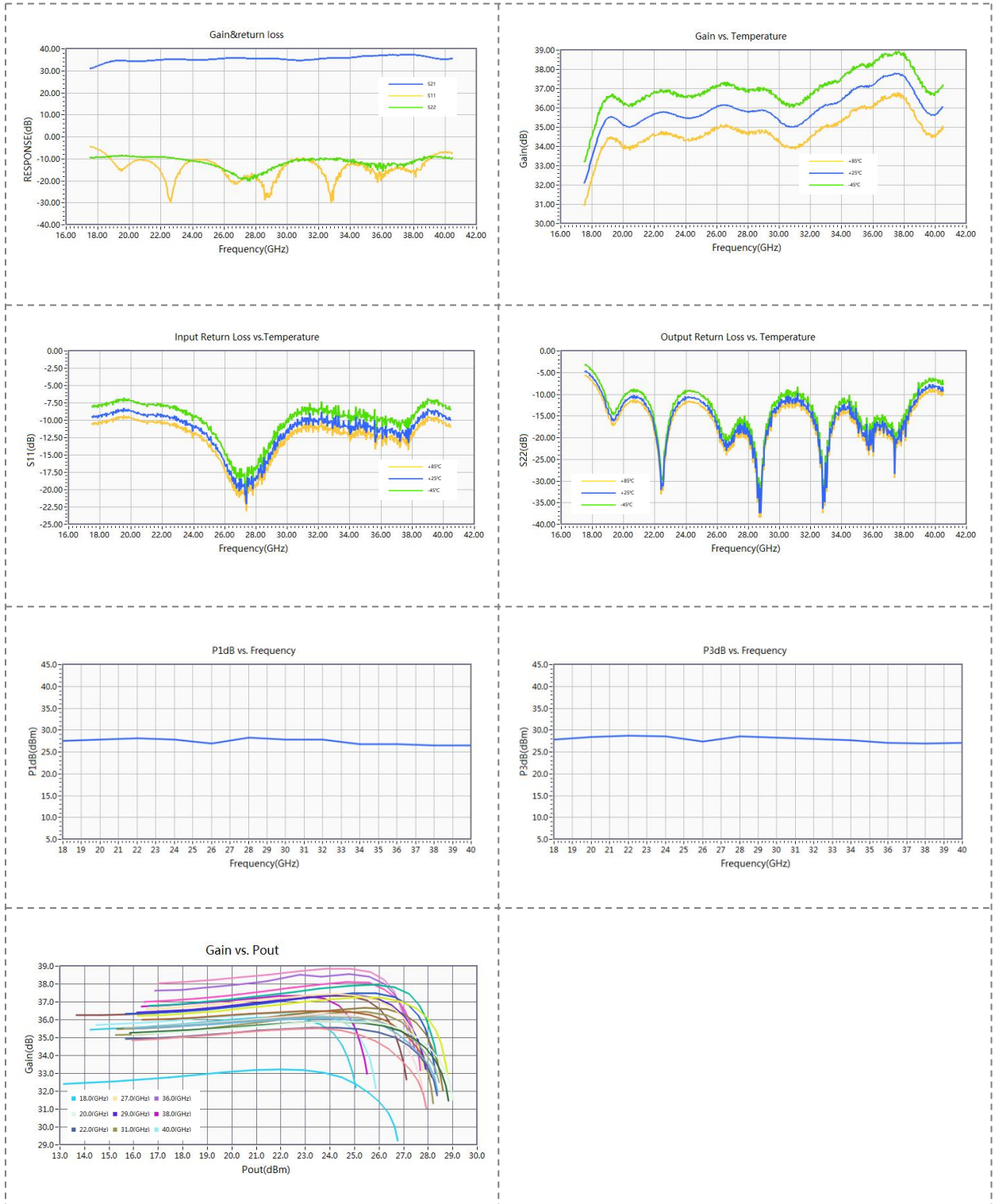
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## Performance Plot



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