

18-40GHz Power Amplifier

P/N: MZPA1840GA1W



■ Features

- Ultra Wide Band: 18-40GHz
- Gain: 20dB
- Output Power: 30dBm
- High Output IP3: 32dBm

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems



■ Electrical Specifications (+25°C)

Parameter	Min.	Typ.	Max.	Units
Frequency Range	18-40			GHz
Gain	18	21		dB
Gain Flatness		±2.5		dB
Gain Variation Over Temperature		±1		dB
Input VSWR		2.0		-
Output VSWR		2.0		-
Output Power for 1 dB Compression (P1dB)	28	30		dBm
Saturated Output Power (Psat)		31		dBm
Input Max Power(no damage)			15	dBm
DC Current (Vcc=+12V)		800	900	mA
Impedance	50			Ω
Input Output Connector	2.92mm-Female			
Material /Finishing	Aluminium/ Gold Plated			
Weight	50g			
Size	50X55X12mm			
Package Sealing	General Sealed(Standard) ; Hermetically Sealed(Optional)			

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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

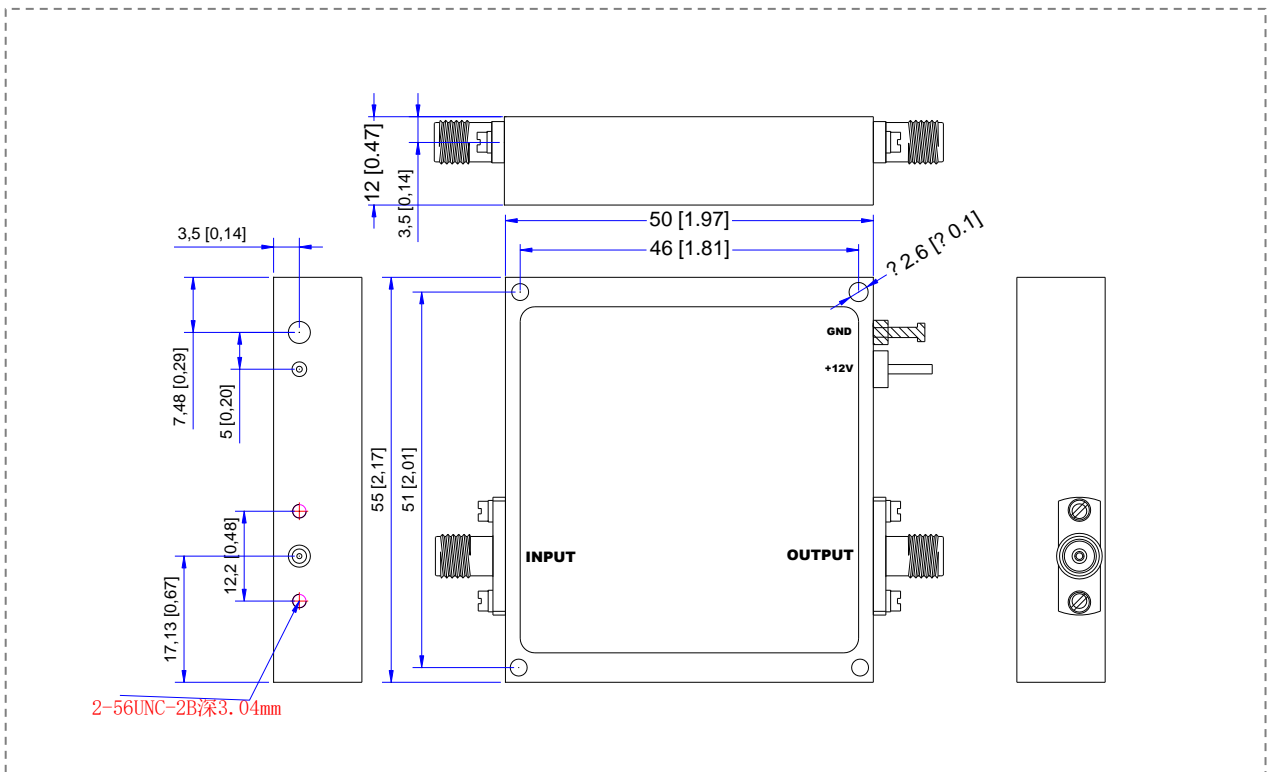
■ Absolute Maximum Ratings

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)



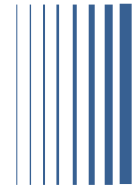
*****Heat Sink required during operation*****

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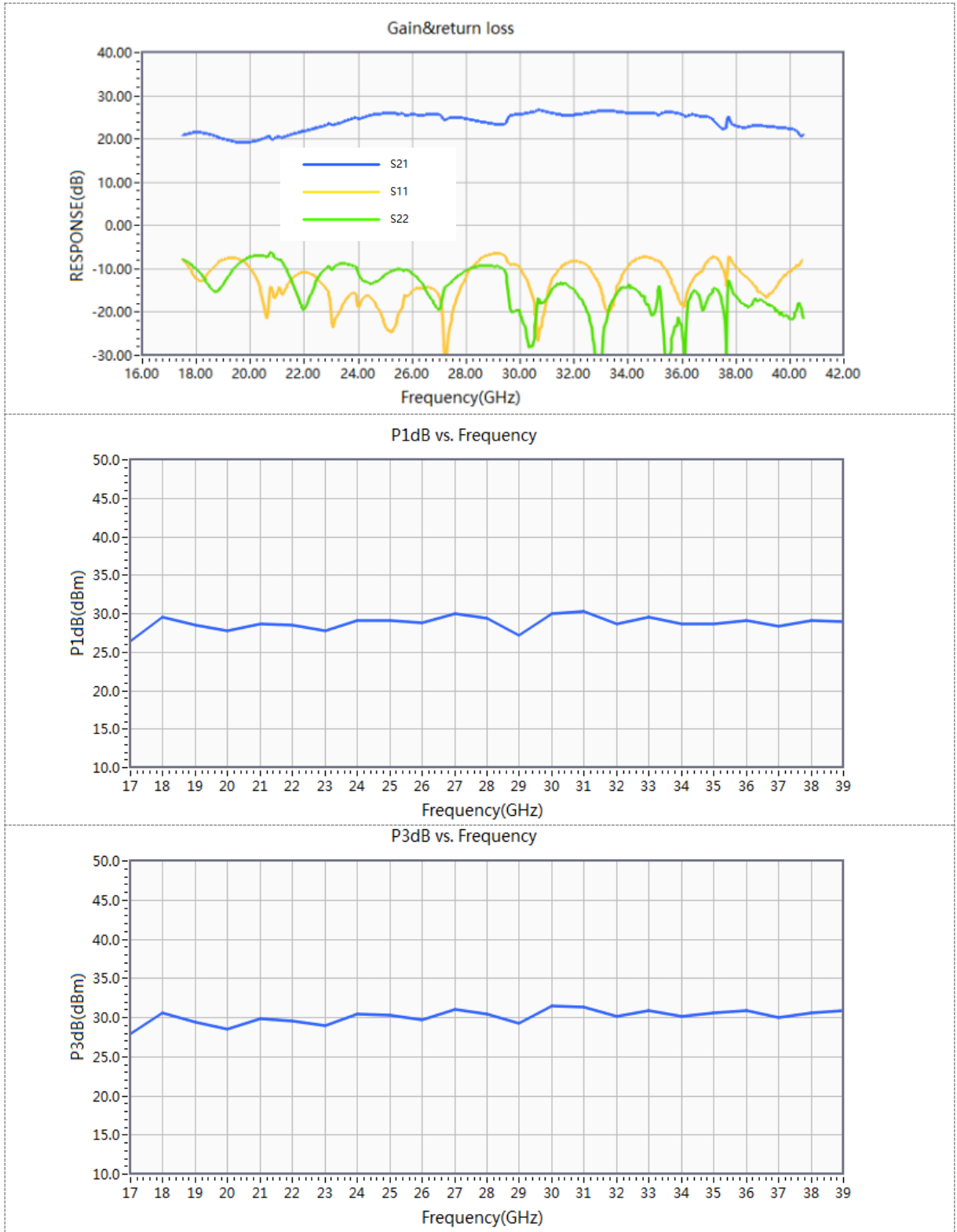
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■ Performance Plot

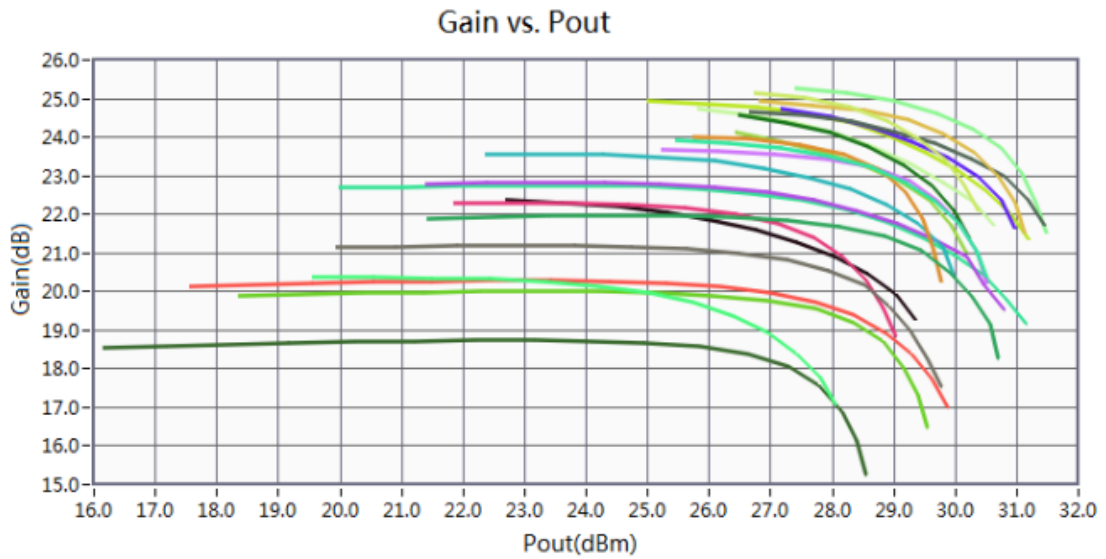


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NOTE:

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