

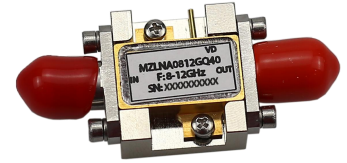
# 8-12GHz Low Noise Amplifier

P/N: MZLNA0812GQ40



## Description:

The amplifier is a low noise amplifier with a typical small signal gain of 40 dB and a typical noise figure of 0.9 dB across the frequency range of 8 to 12 GHz. The typical output power P-1 12dBm. The DC power requirement for the amplifier is +12~15 VDC/250 mA. Accept customization according to different needs.



- Radar Systems
- Communication Systems
- Receivers Systems

## Electrical Specifications ( +25°C ) :

Parameter	Min.	Typ.	Max.	Units
Frequency Range		8-12		GHz
Gain	40			dB
Gain Flatness			±1.5	dB
Input VSWR		1.8	2.0	-
Output VSWR		1.6	2.0	-
Output Power for (P1dB)	10	12		dBm
Output Power Psat		13		dBm
Noise Figure		1.2		dB
Output IP3		20		dBm
Spurious	60			dBc
Altitude		40000		feet
Input Max Power(no damage)			-25	dBm
DC Current (Vcc=+12~15V)			250	mA
Impedance		50		Ω
Input/Output Connector		SMA-Female/SMA-Female		
Material		Aluminium/Gold Painting		
Weight		90g		
Package Sealing		Hermetical Sealing (Laser seal welding)		

## Environmental Specifications:

- ※ Operational Temperature -45°C~+85°C
- ※ Storage Temperature -55°C~+125°C



OBSERVE  
PRECAUTIONS ELECTROSTATIC  
SENSITIVE DEVICES

MICZEN THCHNOLOGIES CO.,LTD.

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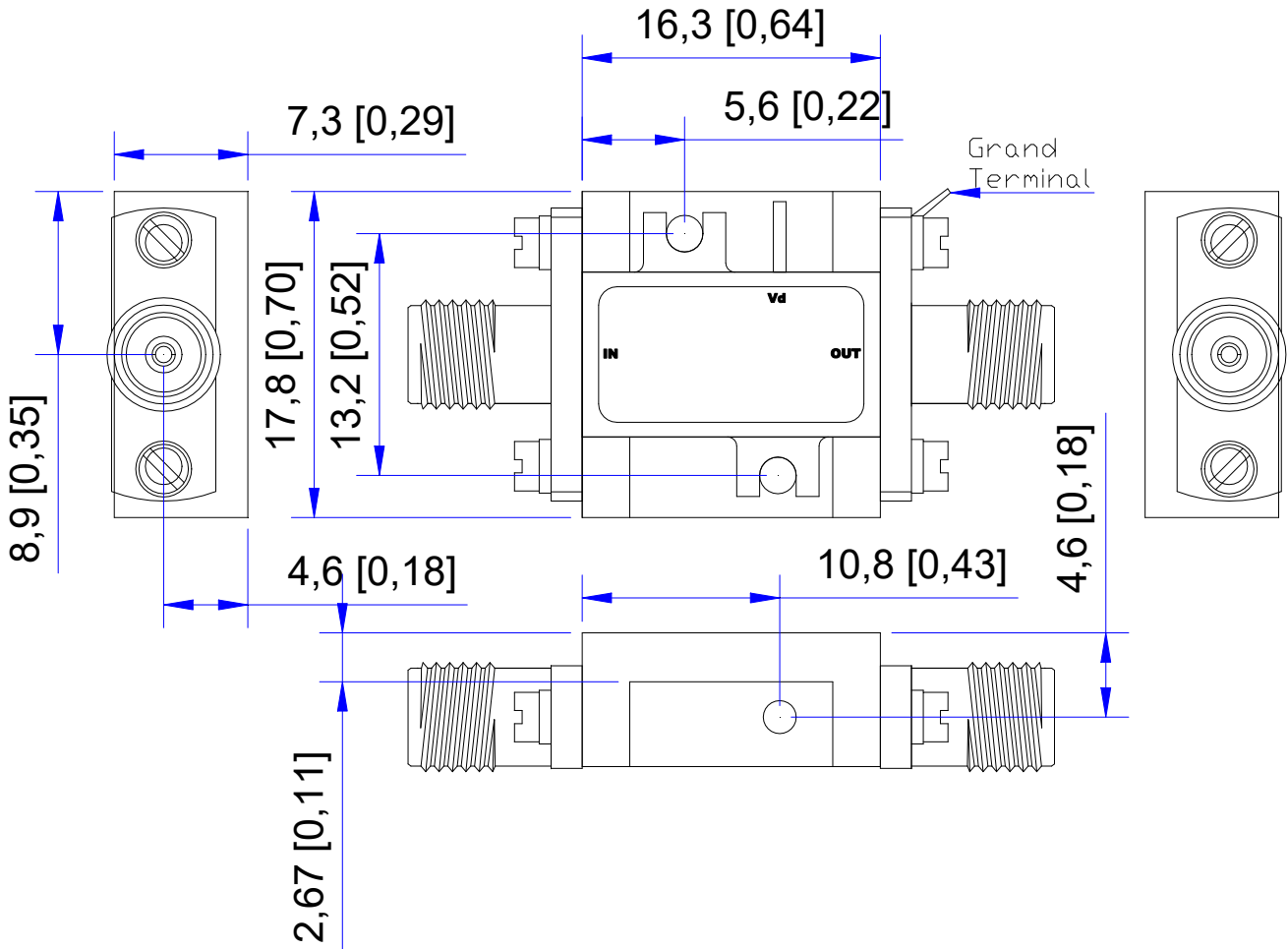
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## ■ Outline Drawing

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.

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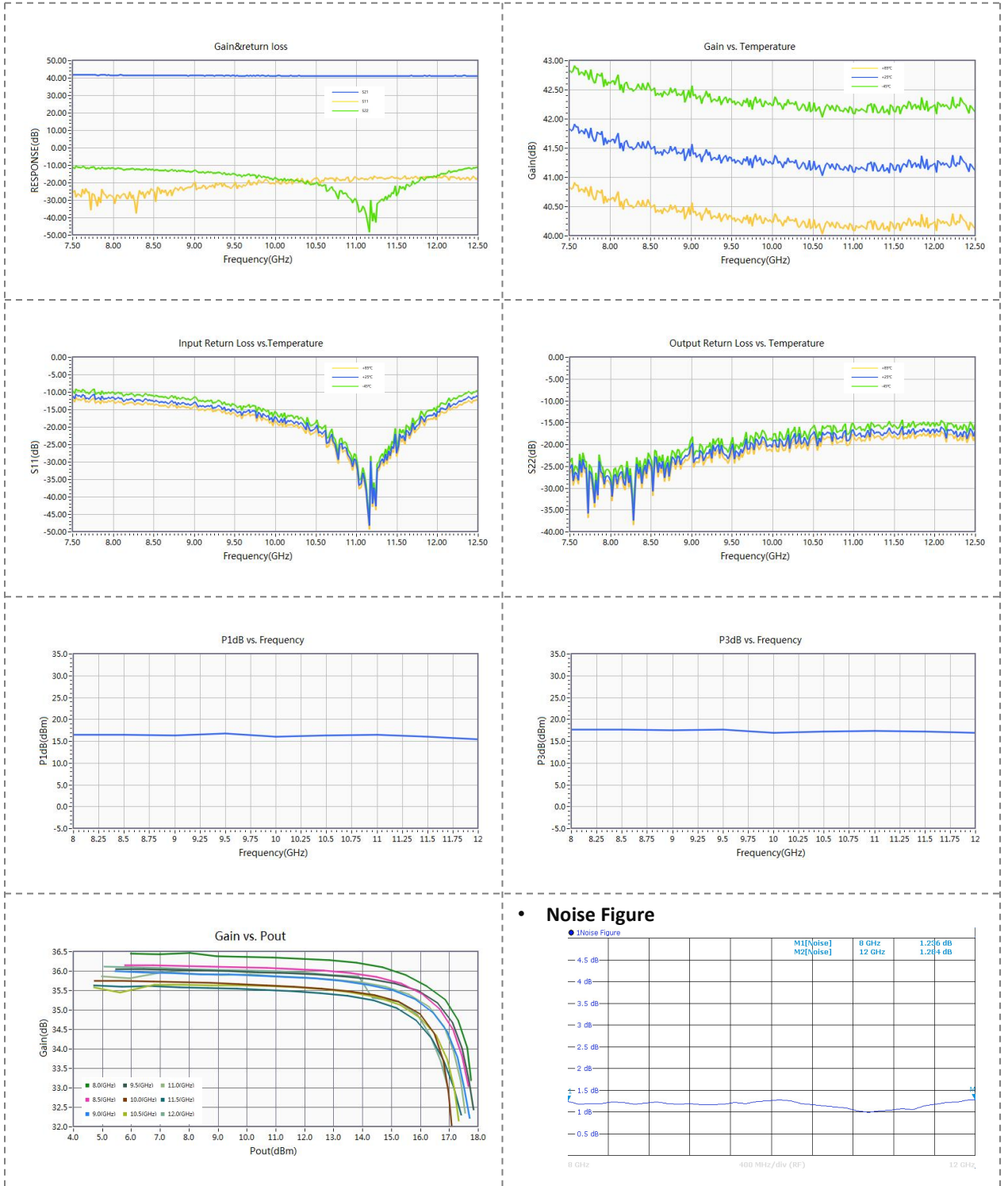
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## Performance Plot



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