

# 8-18GHz Low Noise Amplifier

P/N: MZLNA0818GA23



## Description:

The amplifier is a low noise amplifier with a typical small signal gain of 25 dB and a typical noise figure of 4.3 dB across the frequency range of 8 to 18 GHz. The typical output power P-1 26dBm. The DC power requirement for the amplifier is +12 VDC/400 mA. Accept customization according to different needs.



- Radar Systems
- Communication Systems
- Receivers Systems

## Electrical Specifications ( +25°C ) :

Parameter	Min.	Typ.	Max.	Units
Frequency Range		8-18		GHz
Gain	23		25	dB
Gain Flatness		±0.8	±1.0	dB
Input VSWR		1.4	1.6	-
Output VSWR		1.4	1.6	-
Output Power for (P1dB)	26			dBm
Output Power Psat	29			dBm
Noise Figure			4.3	dB
Output IP2	28	30		dBm
Output IP3	44	46		dBm
Isolation	26			dB
Input Max Power(no damage)			15	dBm
DC Current (Vcc=+12V)		400		mA
Impedance		50		Ω
Input/Output Connector		SMA-K/SMA-K		
Material		Aluminium/Gold Painting		
Weight		43g		
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

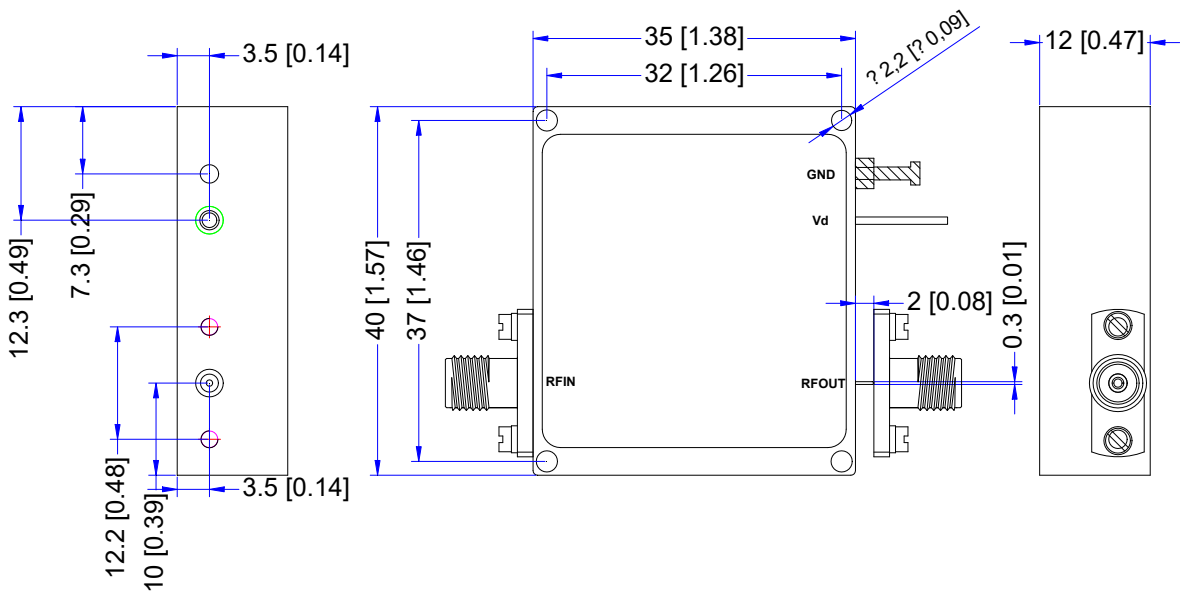
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## ■ Outline Drawing

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.

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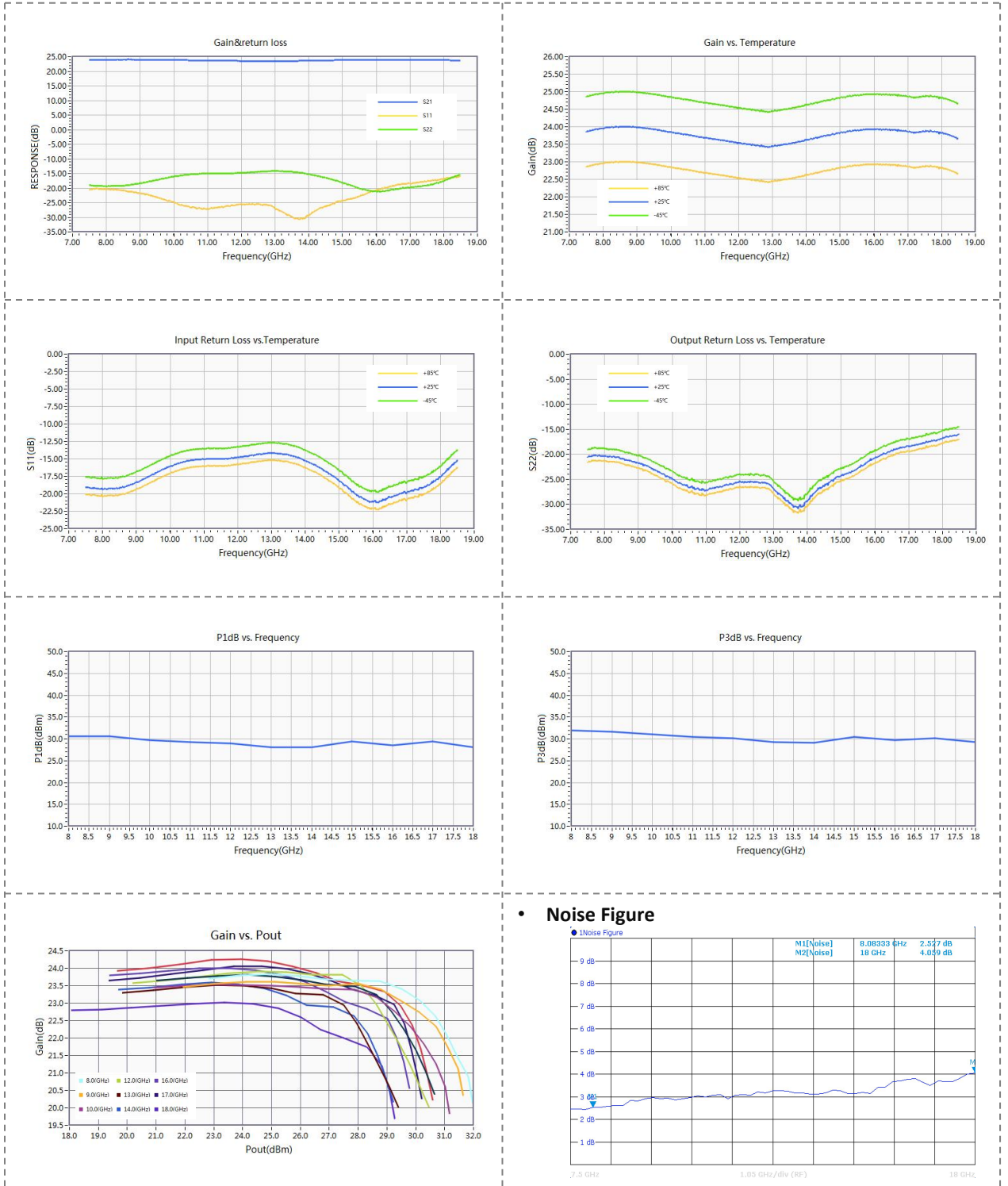
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## Performance Plot



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