

# 6-12GHz Low Noise Amplifier

P/N: LNA0612GA30



## Description:

The amplifier is a low noise amplifier with a typical small signal gain of 33 dB and a typical noise figure of 3 dB across the frequency range of 6 to 12 GHz. The typical output power P-1 11dBm. The DC power requirement for the amplifier is +12 VDC/215 mA. Accept customization according to different needs.



- Radar Systems
- Communication Systems
- Receivers Systems

## Electrical Specifications ( +25°C ) :

Parameter	Min.	Typ.	Max.	Units
Frequency Range		6-12		GHz
Gain	30	33		dB
Gain Flatness		±1	±1.5	dB
Input VSWR		1.5	2.0	-
Output VSWR		1.5	2.0	-
Output Power for (P1dB)	10	11		dBm
Output Power Psat		12		dBm
Input Max Power(no damage)			-15	dBm
Noise Figure		2	2.3	dB
Output IP3		25		dBm
DC Current (Vcc=+9V~+12V)		215		mA
Impedance		50		Ω
Input/Output Connector		SMA-K/SMA-K		
Material		Aluminium\Gold Painting		
Weight		-		
Package Sealing		General Sealing (Standard)		

## Environmental Specifications:

- ※ Operational Temperature -20°C~+85°C
- ※ Storage Temperature -55°C~+125°C



OBSERVE  
PRECAUTIONS ELECTROSTATIC  
SENSITIVE DEVICES

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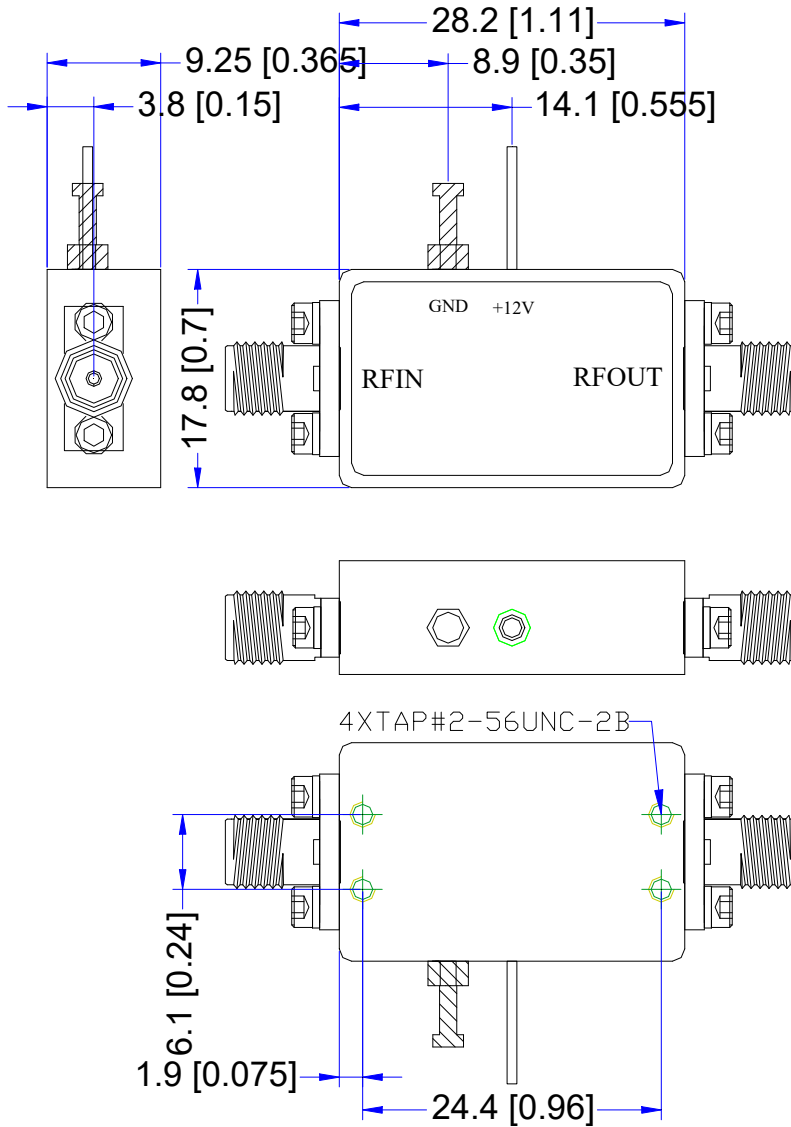
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## Outline Drawing

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.

MICZEN THCHNOLOGIES CO.,LTD.

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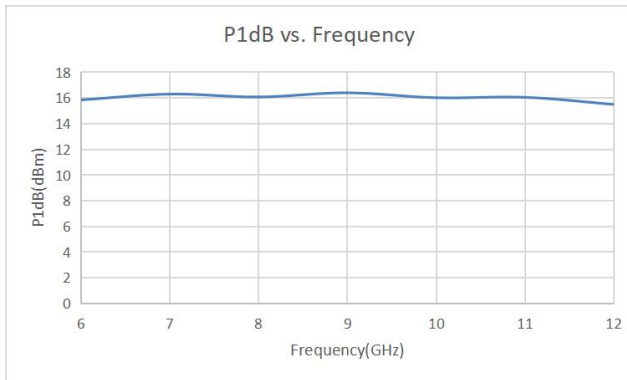
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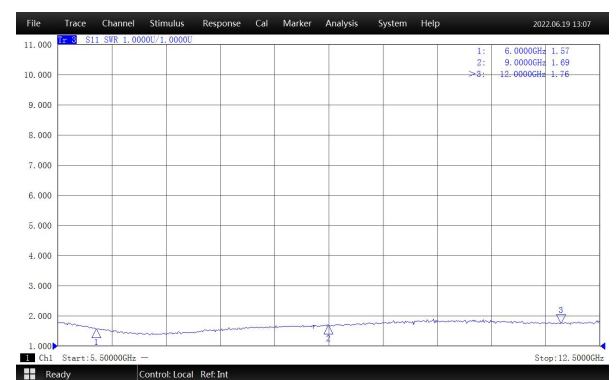


## Performance Plot

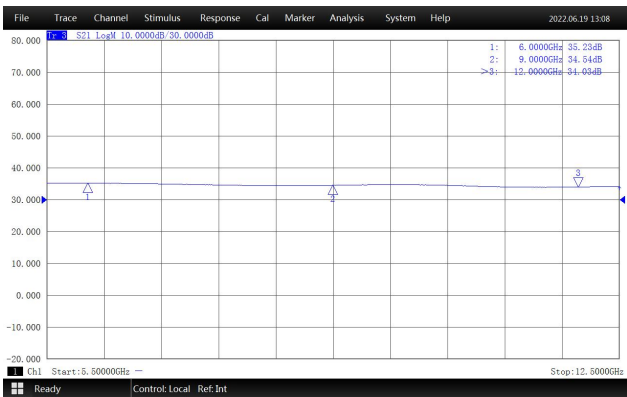
### P1



### S11



### S21



### S22

