

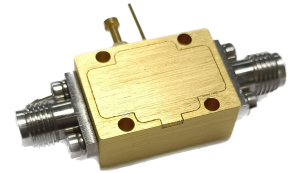
# 6-18GHz Low Noise Amplifier

P/N: LNA0618GD30



## Description:

The amplifier is a low noise amplifier with a typical small signal gain of 33 dB and a typical noise figure of 1.5dB across the frequency range of 6 to 18 GHz. The typical output power P-1 16dBm. The typical DC power requirement for the amplifier is +12VDC/180 mA. Accept customization according to different needs.



- Radar Systems
- Communication Systems
- Receivers Systems

## Electrical Specifications ( +25°C ) :

Parameter	Min.	Typ.	Max.	Units
Frequency Range		6-18		GHz
Gain	30	33		dB
Gain Flatness		±0.5	±1	dB
Gain Variation Over Temperature		±1		dB
Input VSWR		1.4	2.0	-
Output VSWR		1.3	2.0	-
Output Power for (P1dB)	15	16		dBm
Saturated Output Power(Psat)		17		dBm
Noise Figure		1.5	2.0	dB
Spurious		60		dBc
OIP3		25		dBm
Input Max Power(no damage)			-10	dBm
DC Current (Vcc=+12V)		180		mA
Impedance		50		Ω
Input/Output Connector		SMA-Female/SMA-Female		
Material		Aluminium/Gold		
Weight		-		
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

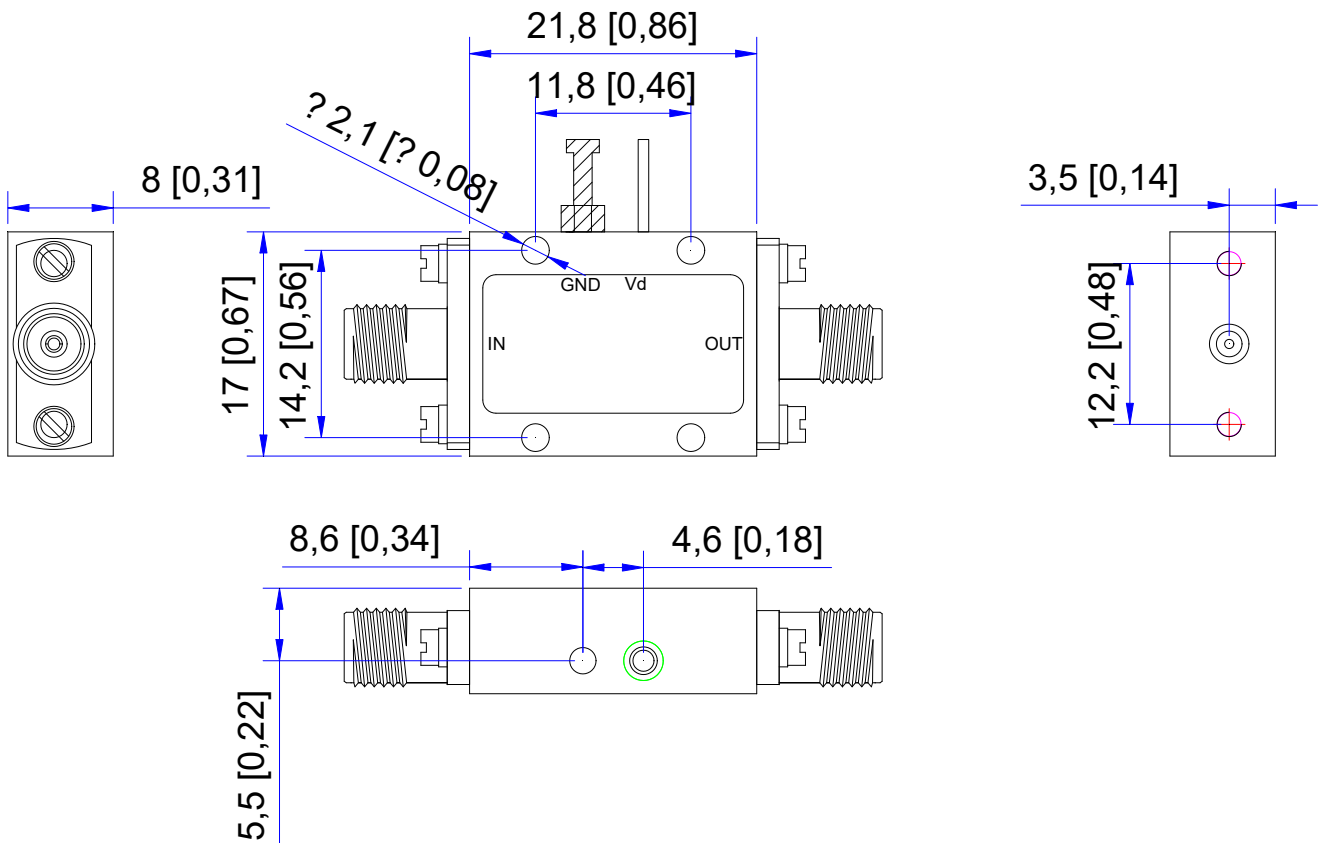
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## ■ Outline Drawing

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.**

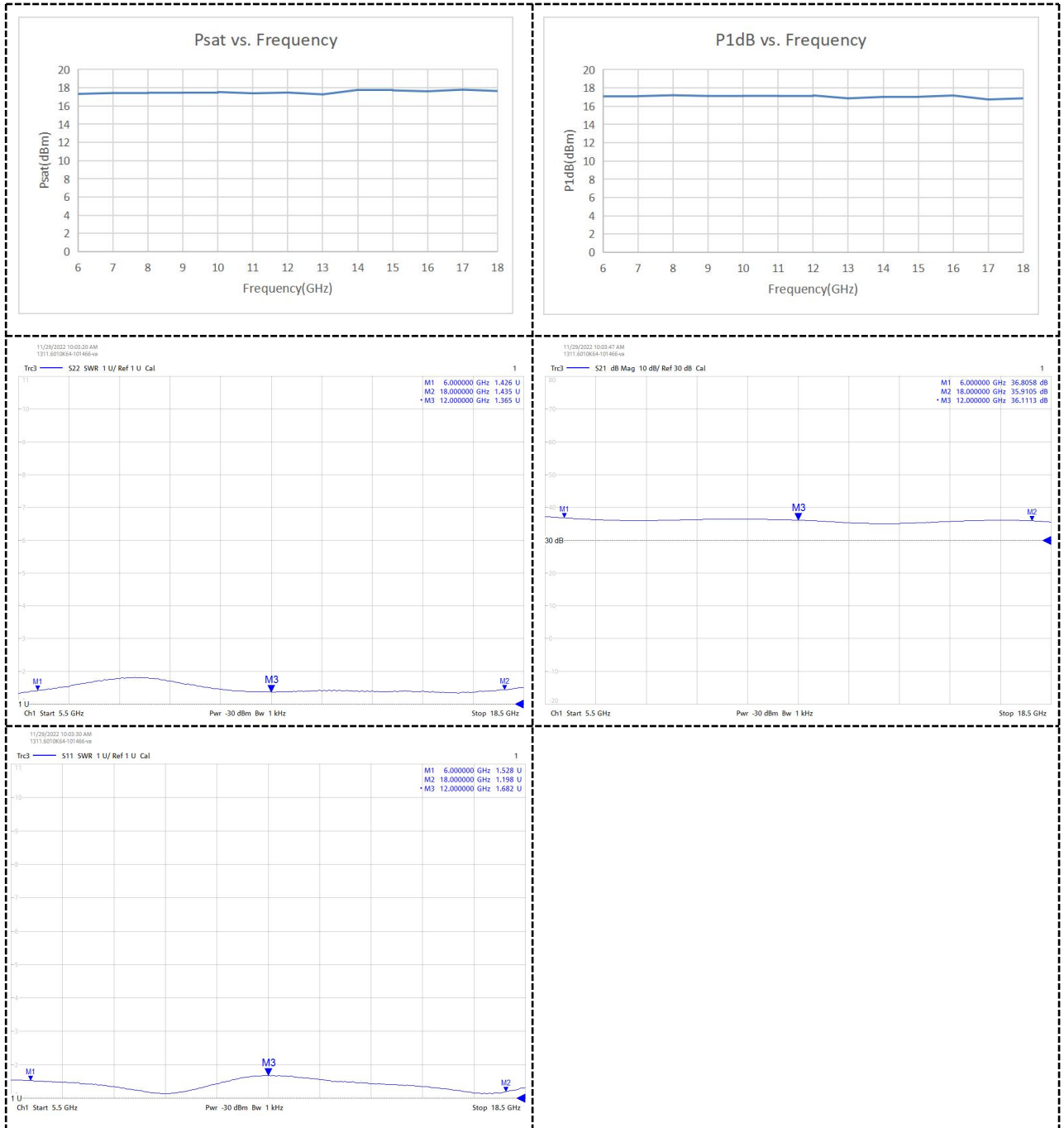
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## Performance Plot



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