

# 18-50GHz Low Noise Amplifier

P/N: MZLNA1850GC45



## Description:

The amplifier is a low noise amplifier with a typical small signal gain of 45 dB and a typical noise figure of 6.0 dB across the frequency range of 18 to 50 GHz. The typical output power P-1 15dBm. The DC power requirement for the amplifier is +12 VDC/600 mA. Accept customization according to different needs.



- Radar Systems
- Communication Systems
- Receivers Systems

## Electrical Specifications ( +25°C ) :

Parameter	Min.	Typ.	Max.	Units
Frequency Range		18-50		GHz
Gain	43	45		dB
Gain Flatness		±4.0	±5.0	dB
Input VSWR		1.9	3.6	-
Output VSWR		1.9	3.6	-
Output Power for (P1dB)	12	15		dBm
Output Power Psat		15		dBm
Noise Figure		6.0	8.0	dB
Output IP3		20		dBm
Input Max Power(no damage)			-20	dBm
DC Current (Vcc=+12V)		600		mA
Impedance		50		Ω
Input/Output Connector	2.4mm-Female/2.4mm-Female			
Material	Aluminium/Gold Painting			
Weight	50g			
Package Sealing	General Sealing (Standard)			

## Environmental Specifications:

- ※ Operational Temperature -25°C~+85°C
- ※ Storage Temperature -55°C~+125°C



OBSERVE  
PRECAUTIONS ELECTROSTATIC  
SENSITIVE DEVICES

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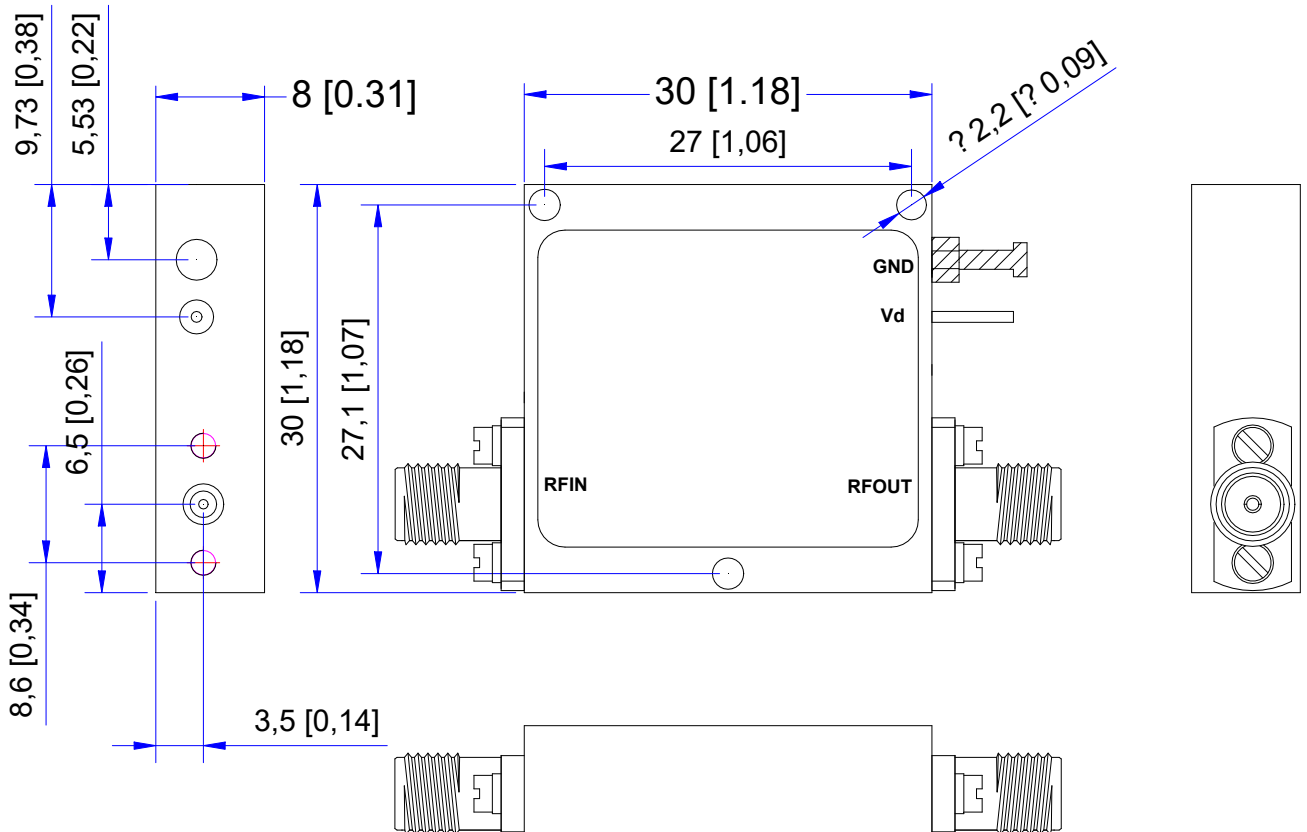
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## ■ Outline Drawing

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.

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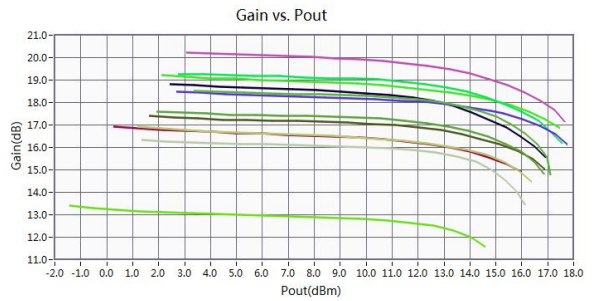
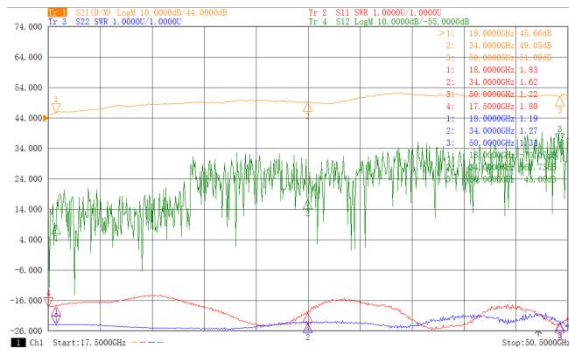
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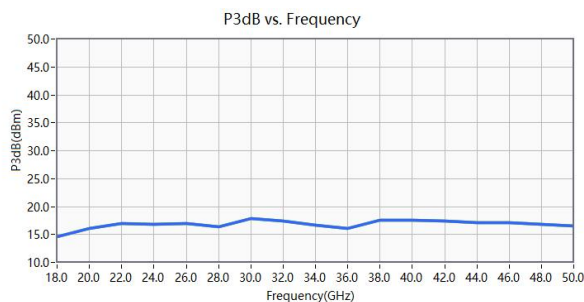
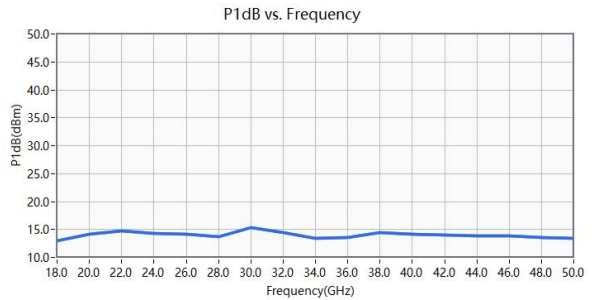
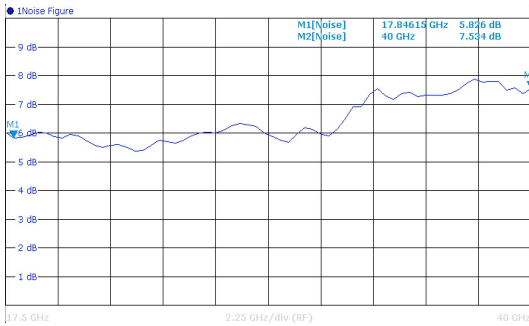


## Performance Plot

### Gain&Input VSWR&Output VSWR



### Noise Figure



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