

# 0.5-10GHz Low Noise Amplifier

P/N: LNA005100GA45



## Description:

The amplifier is a low noise amplifier with a typical small signal gain of 47 dB and a typical noise figure of 4 dB across the frequency range of 0.5 to 10 GHz. The typical output power P-1 26 dBm. The DC power requirement for the amplifier is +15 VDC/550 mA. Accept customization according to different needs.



- Radar Systems
- Communication Systems
- Receivers Systems

## Electrical Specifications ( +23°C ) :

Parameter	Min.	Typ.	Max.	Units
Frequency Range		0.5-10		GHz
Gain	45	47		dB
Gain Flatness		±1.5	±2	dB
Input VSWR		1.8	2.5	-
Output VSWR		1.8	2.5	-
Output Power for (P1dB)	25	26		dBm
Saturated Output Power (Psat)		27		dBm
Spurious		-60		dBc
Noise Figure		4	6	dB
Output IP3		32		dBm
Input Max Power(no damage)			+18	dBm
EMI / DC to RF Leakage	70			dBc
DC Current (Vcc=+15V)		550		mA
Impedance		50		Ω
Input/Output Connector		SMA-Female/SMA-Female		
Material		Aluminium/Gold Painting		
Weight		50g		
Package Sealing		General Sealing (Standard)		

## Environmental Specifications:

- ※ Operational Temperature -40°C~+70°C
- ※ Storage Temperature -55°C~+85°C



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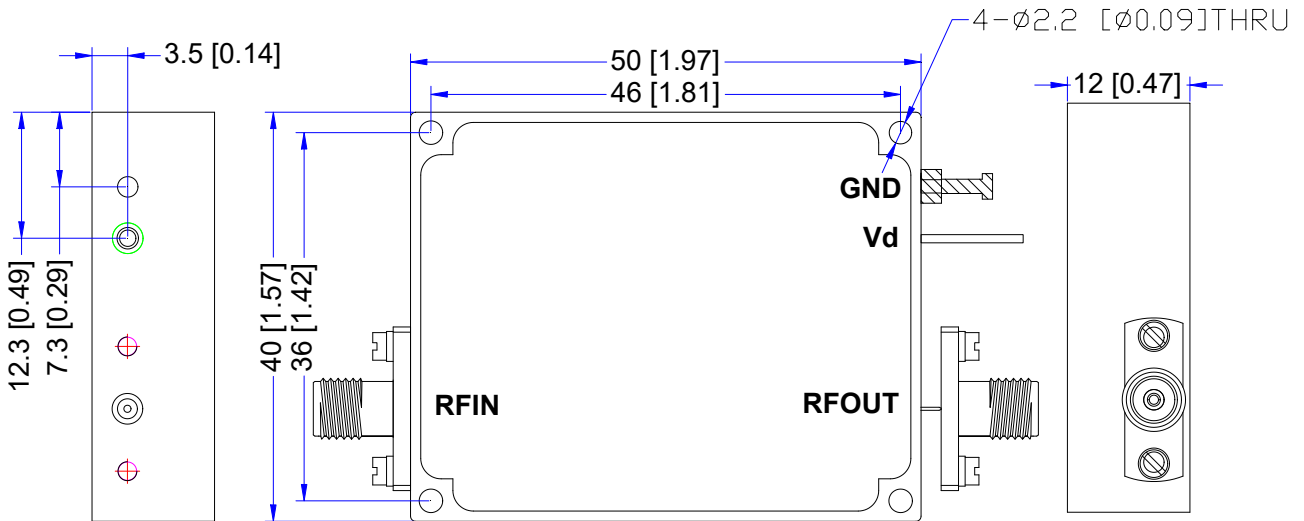
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## ■ Outline Drawing

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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