

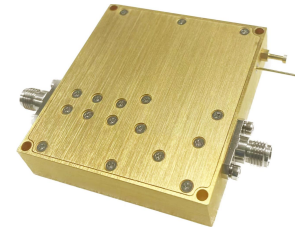
# 0.4-6GHz Low Noise Amplifier

P/N: LNA004060GA45



## 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 0.4 to 6 GHz. The typical output power P-1 26 dBm. The DC power requirement for the amplifier is +15 VDC/400 mA. Accept customization according to different needs.



- Radar Systems
- Communication Systems
- Receivers Systems

## Electrical Specifications ( +23°C ) :

| Parameter                     | Min. | Typ.                       | Max. | Units |
|-------------------------------|------|----------------------------|------|-------|
| Frequency Range               |      | 0.4-6                      |      | GHz   |
| Gain                          | 45   | 47                         |      | dB    |
| Gain Flatness                 |      | ±1.5                       | ±2   | dB    |
| Input VSWR                    |      | 1.8                        | 2.2  | -     |
| Output VSWR                   |      | 1.8                        | 2.2  | -     |
| Output Power for (P1dB)       | 25   | 26                         |      | dBm   |
| Saturated Output Power (Psat) |      | 27                         |      | dBm   |
| Spurious                      |      | -60                        |      | dBc   |
| Noise Figure                  |      | 4                          | 5    | dB    |
| Output IP3                    |      | 32                         |      | dBm   |
| Input Max Power(no damage)    |      |                            | +16  | dBm   |
| EMI / DC to RF Leakage        | 70   |                            |      | dBc   |
| DC Current (Vcc=+15V)         |      | 400                        |      | 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



OBSERVE  
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SENSITIVE DEVICES

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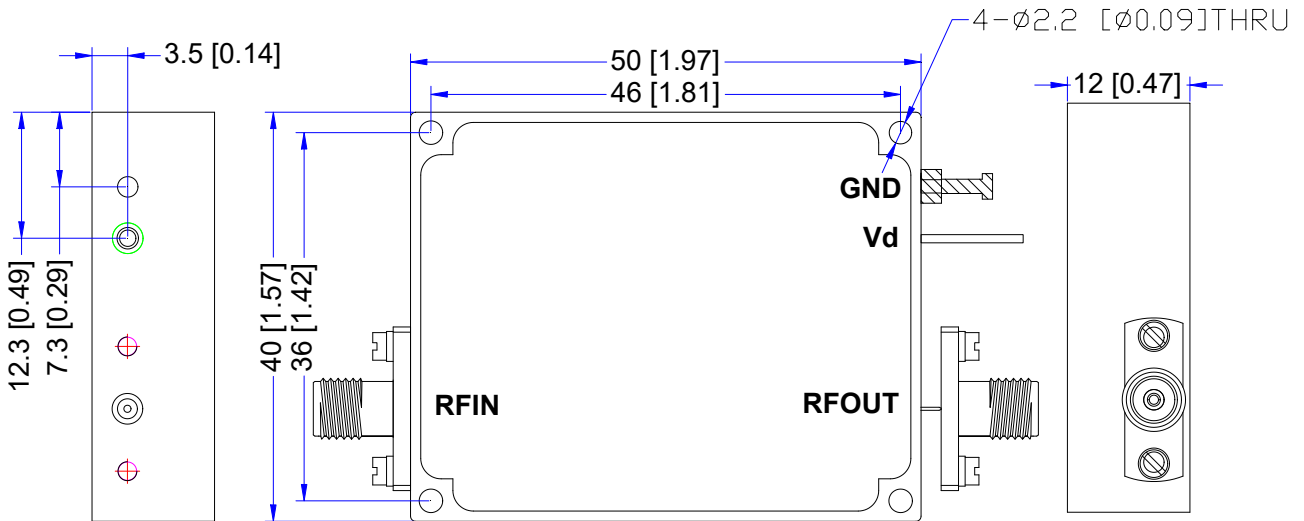
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## ■ Outline Drawing

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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