

49-50GHz Low Noise Amplifier

P/N: MZLNA4950GA20



Description:

The amplifier is a low noise amplifier with a typical small signal gain of 20 dB and a typical noise figure of 4.0 dB across the frequency range of 49 to 50 GHz. The typical output power P-1 7dBm. The DC power requirement for the amplifier is +12VDC/100 mA. Accept customization according to different needs.



- Radar Systems
- Communication Systems
- Receivers Systems

Electrical Specifications (+25°C) :

| Parameter | Min. | Typ. | Max. | Units |
|----------------------------|----------------------------|-------|------|-------|
| Frequency Range | | 49-50 | | GHz |
| Gain | 18 | 20 | | dB |
| Gain Flatness | | ±0.5 | ±1.0 | dB |
| Input VSWR | | 1.5 | 2.0 | - |
| Output VSWR | | 1.5 | 2.0 | - |
| Output Power for (P1dB) | 5 | 7 | | dBm |
| Output Power Psat | 8 | 12 | | dBm |
| Spurious | | -60 | | dBc |
| Output IP3 | | 30 | | dBm |
| Noise Figure | | 4.0 | 5.0 | dB |
| Input Max Power(no damage) | | | -5 | dBm |
| DC Current (Vcc=+12V) | | 100 | | 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



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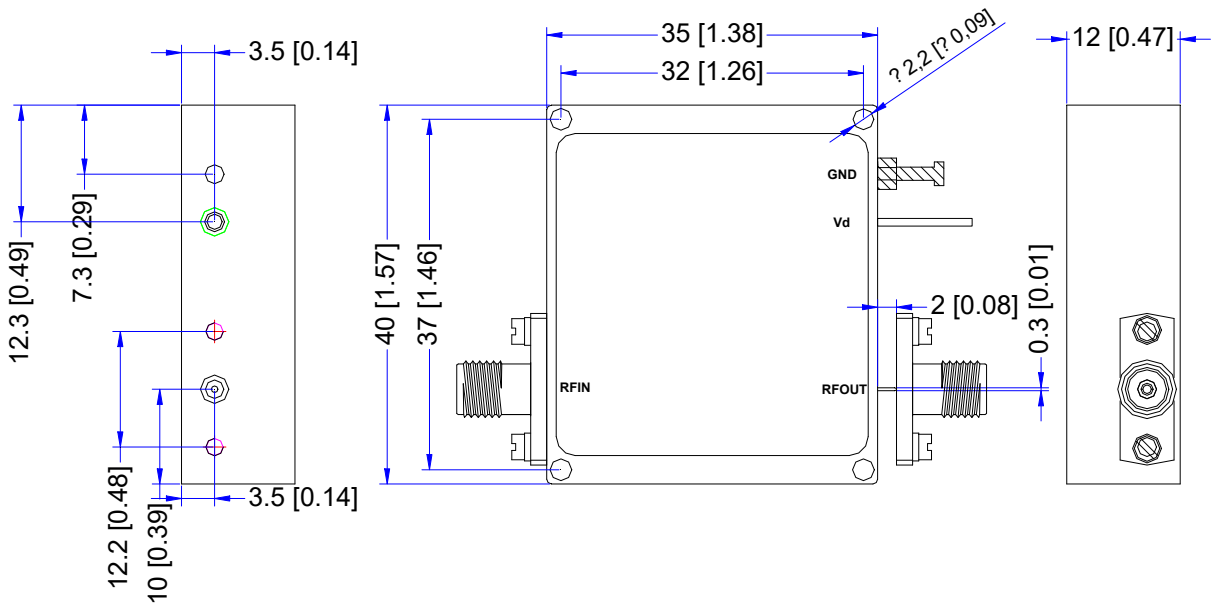
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■ Outline Drawing

All Dimensions in mm (inches) Tolerance ± 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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