



Note: The photo is for illustration purposes only.
Please refer to outline drawing

■ Features

- Ultra Broadband: 1~9GHz
- Low Noise Figure: 0.8dB
- High Gain: 30dB
- P1dB Output Power: 15dBm
- High OIP3: 32dBm
- Supply Voltage : +12V@ 350mA

■ Applications

- Radar Systems
- Communication Systems
- Receiving Systems

□ Electrical Specifications

| Parameter | Min. | Typ. | Max. | Units |
|----------------------------|------------------------------------------------------------|------|------|-------|
| Frequency Range | 1-9 | | | GHz |
| Gain | 30 | 31 | | dB |
| Gain Flatness | | ±1.5 | ±2.5 | dB |
| Input VSWR | | 1.6 | 2.0 | - |
| Output VSWR | | 1.6 | 2.0 | - |
| P1dB Output Power | 25 | 26 | | dBm |
| Noise Figure | | 1 | 1.5 | dB |
| OIP3 | | 32 | | dBm |
| Input Max Power(no damage) | | | 0 | dBm |
| DC Current (Vcc=+12V) | | 350 | | mA |
| Weight | 50 | | | g |
| Impedance | 50 | | | Ω |
| Input Connector | SMA-K(Removable) | | | |
| Output Connector | SMA-K(Removable) | | | |
| Material | Aluminum Gold Plating | | | |
| Package Sealing | General Sealing (Standard); Hermetically Seal(Optional) | | | |

Environmental Conditions

| | | | |
|-------------------------|--------------|-----------|-----------------------------------------------------|
| Operational Temperature | -45°C~+85°C | Vibration | 25g rms (15 degree 2KHz) endurance, 1 hour per axis |
| Storage Temperature | -55°C~+125°C | Shock | 20G for 11msc half sin wave,3 axis both directions |
| Executive Standard | MIL-STD-810G | Humidity | 100% RH at 35c, 95%RH at 40°C |

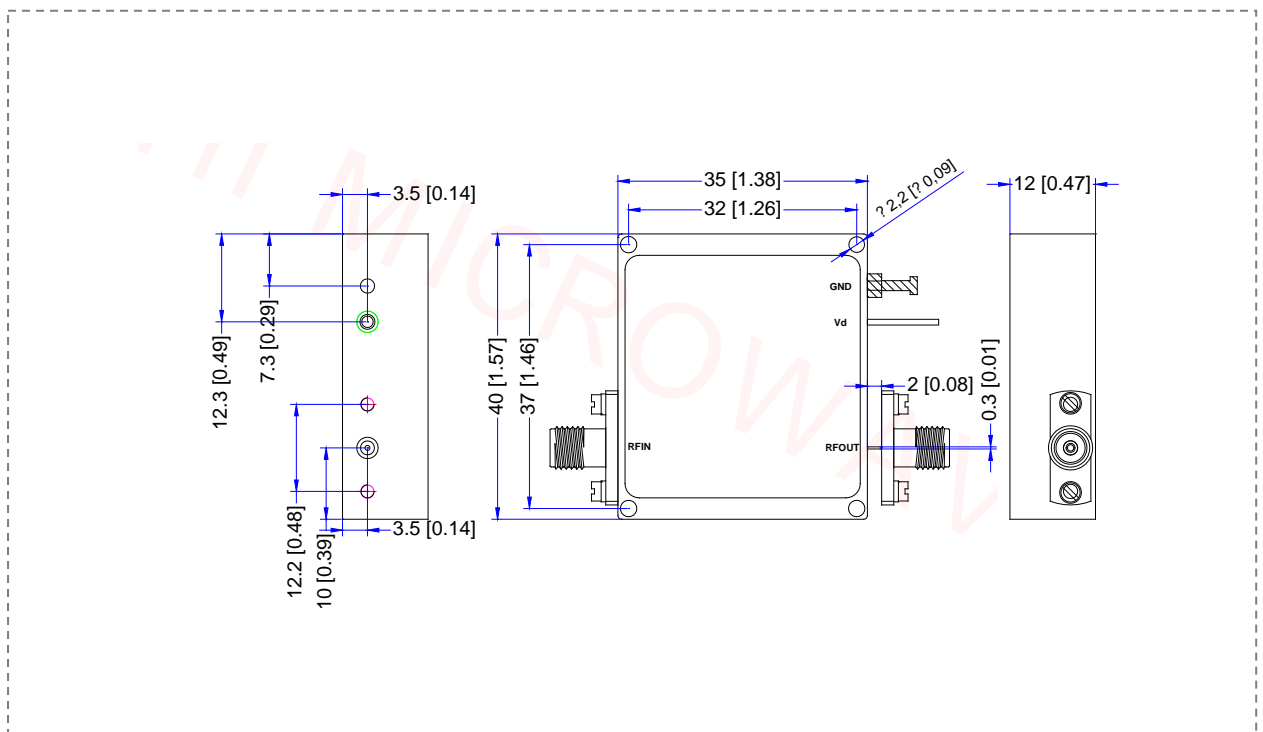
Absolute Maximum Ratings

| | |
|-----------------------|----------------------|
| Supply Bias Voltage | +14V |
| RF INPUT POWER | 0dBm |
| ESD sensitivity (HBm) | Class 0, passed 150V |



Outline Drawing

All Dimensions in mm (inches) Tolerance ± 0.25 (0.01)



*****Heat Sink required during operation*****