

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

■ Features

- Ultra Wide Band: 1-12GHz
- Gain: 40dB
- Output Power: 23dBm
- High Output IP3: 30dBm

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications

| Parameter | Min. | Typ. | Max | Units |
|--|--|-------|-----|-------|
| Frequency Range | 1-12 | | | GHz |
| Gain | 40 | 41 | | dB |
| Gain Flatness | | ± 1.5 | | dB |
| Gain Variation Over Temperature | | ± 1 | | dB |
| Input VSWR | | 1.5 | 2.0 | dB |
| Output VSWR | | 1.8 | 2.0 | dB |
| Output Power for 1 dB Compression (P1dB) | 22 | 23 | | dBm |
| Saturated Output Power (Psat) | | 24 | | dBm |
| Noise Figure | | 1.5 | 2.1 | dB |
| Input Max Power(no damage) | | | 0 | dBm |
| DC Current (Vcc=+12V) | | 400 | | mA |
| Impedance | 50 | | | Ω |
| Input Output Connector | SMA-k/SMA-K | | | |
| Material | Aluminium/Gold | | | |
| Weight | 50g | | | |
| 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 |

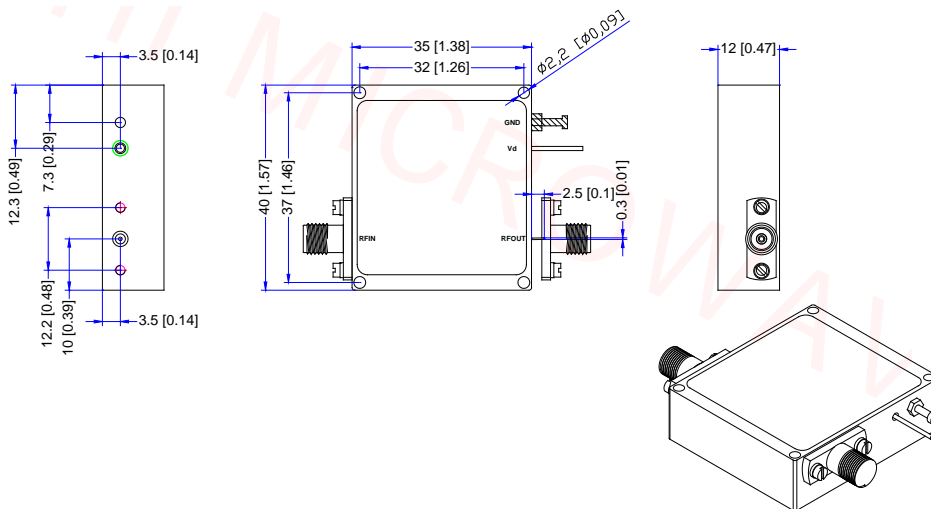
Absolute Maximum Ratings

| | |
|-----------------------|----------------------|
| Supply Bias Voltage | 15V |
| 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*****