



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

■ Features

- Ultra Wide Band: 6-12GHz
- Gain: 30dB
- Output Power Past: 36dBm
- Bias: Vd=12V;Id=2.5A

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications


| Parameter | Min. | Typ. | Max | Units |
|--|-------------|------|------|-------|
| Frequency Range | 6-12 | | | GHz |
| Small Signal Gain | 30 | | | dB |
| Gain Flatness | | ±1.5 | ±2.5 | dB |
| Input/Output VSWR | | 1.5 | 2.0 | - |
| Output Power for 1 dB Compression (P1dB) | 36 | 37 | | dBm |
| Saturated Output Power (Psat) | | 38 | | dBm |
| NF | | 6 | 8 | dB |
| Input Max Power(no damage) | | | +12 | dBm |
| Internally Generated Spurious | | -60 | | dBc |
| DC Current (Vcc=+12V) (@Pout=4W) | | 2.3 | 2.5 | A |
| Impedance | 50 | | | Ω |
| Input Output Connector | SMA-k/SMA-K | | | |
| Material | Aluminium | | | |
| Weight | 300g | | | |
| Dimension | 85X50X12mm | | | |

Environmental Conditions

| | | | |
|--------------------------------|--------------|------------------|---|
| Operational Temperature | -35°C~+70°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 | +12V |
| RF INPUT POWER | +12dBm |
| ESD sensitivity (HBm) | Class 0, passed 150V |

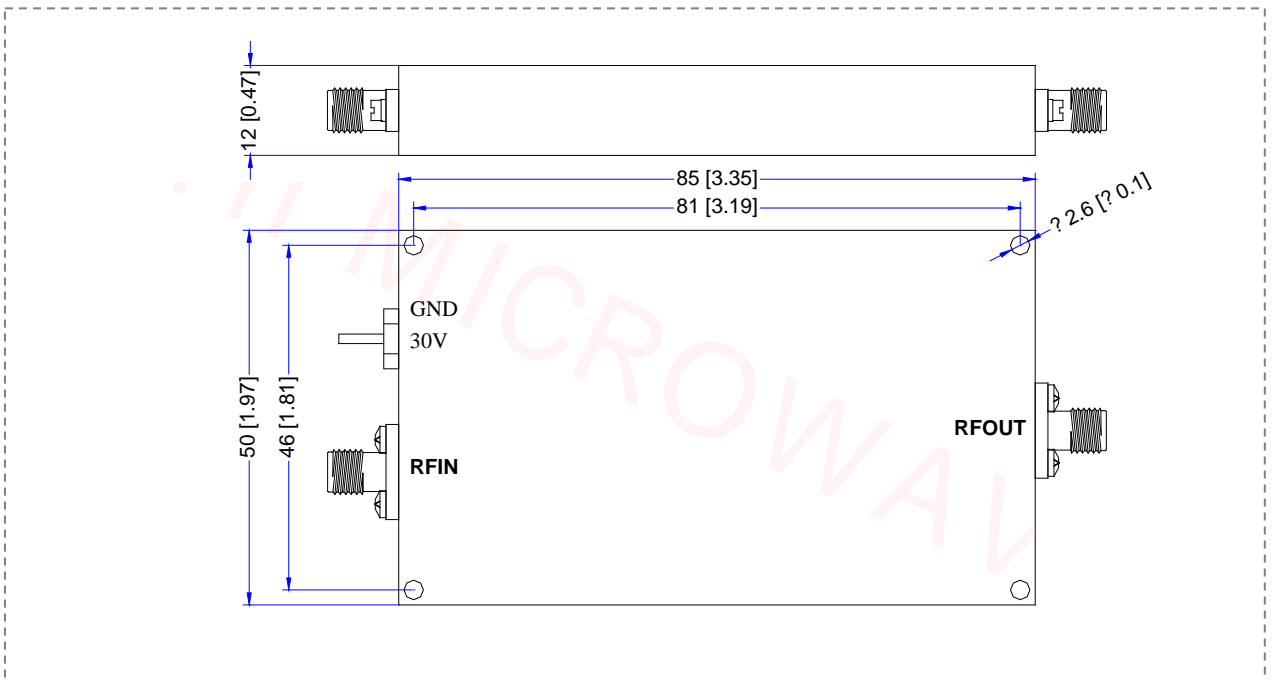


OBSERVE PRECAUTIONS ELECTROSTATIC SENSITIVE DEVICES



Outline Drawing

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



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