



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

### ■ Features

- Ultra Wide Band: 1-3GHz
- Gain: 20dB
- Output Power: 20dBm
- High Output IP3: 32dBm

### ■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

### □ Electrical Specifications

| Parameter                     | Min.                        | Typ. | Max  | Units |
|-------------------------------|-----------------------------|------|------|-------|
| Frequency Range               | 1-3                         |      |      | GHz   |
| Gain                          | 16                          | 18   | 20   | dB    |
| Gain Flatness                 |                             | ±1   | ±1.3 | dB    |
| Input VSWR                    |                             | 1.6  | 2.0  | -     |
| Output VSWR                   |                             | 1.6  | 2.0  | -     |
| Output Power for 1 dB         | 18                          | 20   |      | dBm   |
| Saturated Output Power (Psat) |                             | 20   |      | dBm   |
| Noise Figure                  |                             | 1.5  | 2.5  | dB    |
| OIP3                          | 32                          | 36   |      |       |
| Input Max Power(no damage)    |                             |      | 5    | dBm   |
| Reverse Isolation             | 25                          |      |      | dB    |
| DC Current (Vcc=+12V)         |                             | 70   | 75   | mA    |
| Impedance                     | 50                          |      |      | Ω     |
| Input Output Connector        | SMA-k/SMA-K                 |      |      |       |
| Material                      | Aluminium                   |      |      |       |
| Weight                        | 30g                         |      |      |       |
| Package Sealing               | General Sealing (Standard); |      |      |       |

### 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                       |

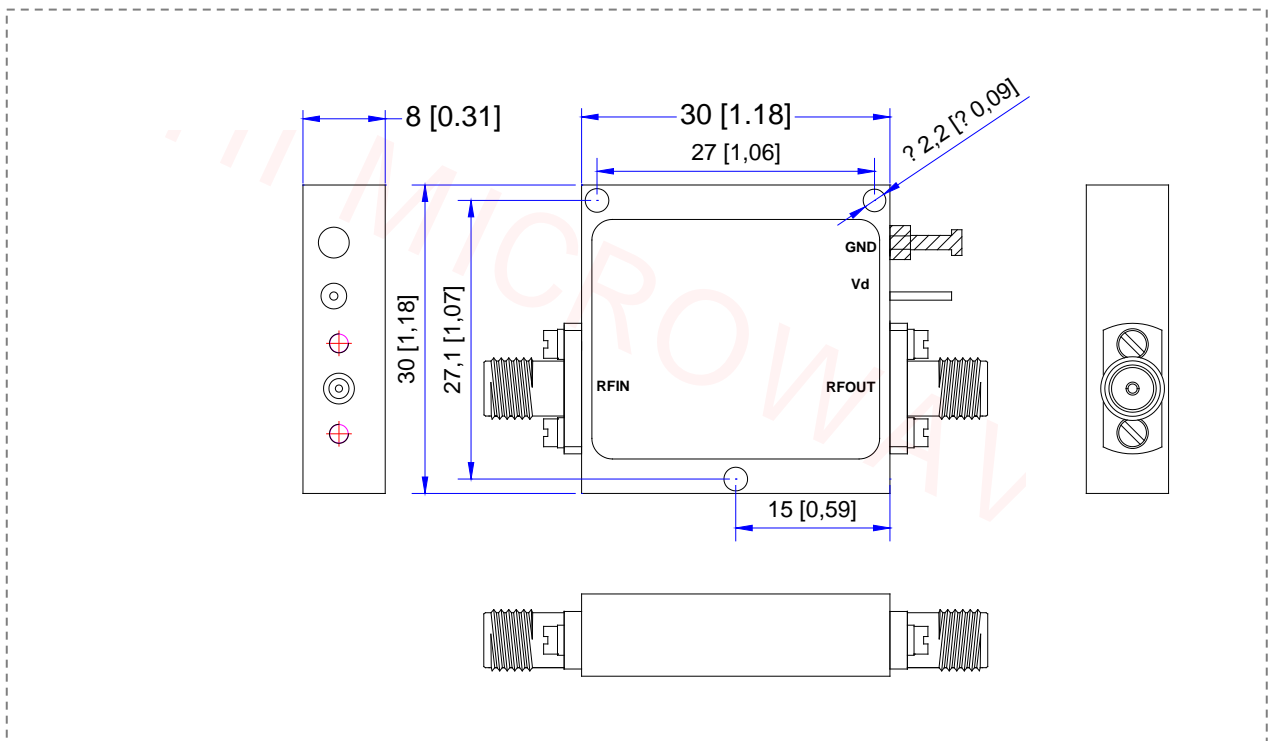
### Absolute Maximum Ratings

|                       |                      |
|-----------------------|----------------------|
| Supply Bias Voltage   | 15V                  |
| RF INPUT POWER        | 5dBm                 |
| ESD sensitivity (HBm) | Class 0, passed 150V |



### Outline Drawing

All Dimensions in mm ( inches ) Tolerance  $\pm 0.25$  ( 0.01 )



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