



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

### ■ Features

- Ultra Wide Band: 1-18GHz
- Gain: 40dB
- Output Power: 33dBm
- High Output IP3: 40dBm

### ■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

### □ Electrical Specifications

| Parameter                                | Min.                       | Typ.  | Max | Units |
|--|----------------------------|-------|-----|-------|
| Frequency Range                          | 1-18                       |       |     | GHz   |
| Gain                                     | 40                         | 41    |     | dB    |
| Gain Flatness                            |                            | ± 2.5 | ± 3 | dB    |
| Input VSWR                               |                            | 2.0   | 2.5 | -     |
| Output VSWR                              |                            | 2.0   | 2.5 | -     |
| Noise Figure                             |                            | 5     |     | dB    |
| Output Power for 1 dB Compression (P1dB) | 33                         |       |     | dBm   |
| Saturated Output Power (Psat)            |                            | 34    |     | dBm   |
| Spurious                                 |                            | -60   |     | dBc   |
| Input Max Power(no damage)               |                            |       | 5   | dBm   |
| DC Current (Vcc=+15v )@(P1dB)            |                            | 800   |     | mA    |
| Impedance                                | 50                         |       |     | Ω     |
| Input Output Connector                   | SMA-Female/SMA-Female      |       |     |       |
| Material                                 | Aluminium                  |       |     |       |
| Weight                                   | 50g                        |       |     |       |
| 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

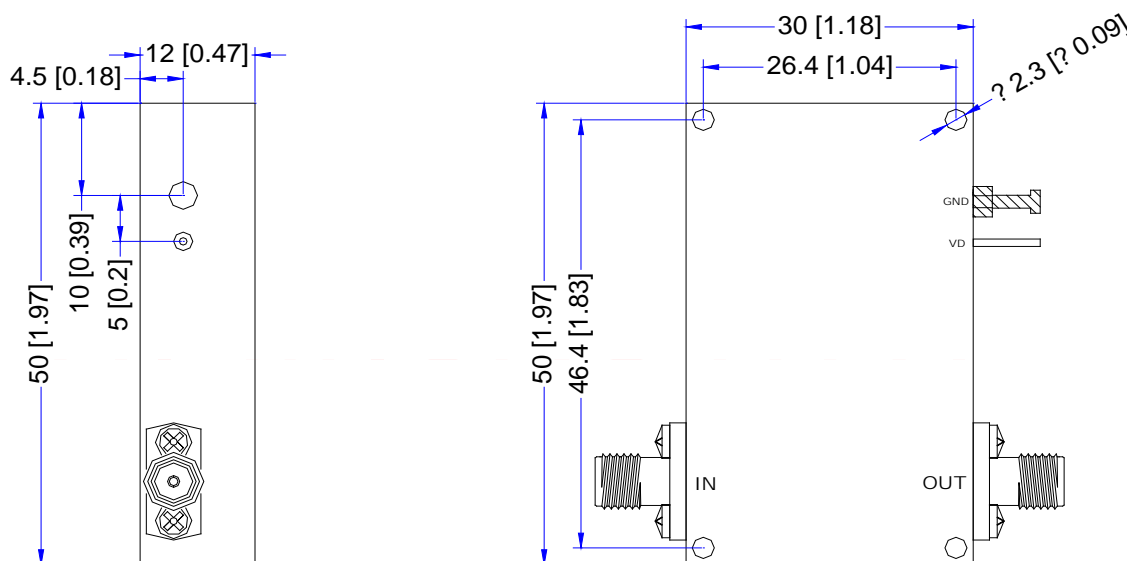
|                       |                      |
|-----------------------|----------------------|
| Supply Bias Voltage   | +20V                 |
| RF INPUT POWER        | 5dBm                 |
| ESD sensitivity (HBm) | Class 0, passed 150V |



OBSERVE  
PRECAUTIONS  
ELECTROSTATIC  
SENSITIVE  
DEVICES

### Outline Drawing

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



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