

## 1-50GHz Broadband Power Amplifier



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

### ■ Features

- Ultra Wide Band: 1-50GHz
- Gain: 20dB
- Output Power Psat: 24dBm
- Bias: Vd=12V;Id=0.5A

### ■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

### □ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range	1-50			GHz
Small Signal Gain	20			dB
Gain Flatness		±2.5		dB
Input VSWR		2.0		-
Output VSWR		2.0		-
Output Power for 1 dB Compression (P1dB)		22		dBm
Saturated Output Power (Psat)	23	24		dBm
Input Max Power(no damage)			10	dBm
DC Current (Vcc=+12V) (@Pout=25dBm)		0.5	1	A
Impedance	50			Ω
Input Output Connector	2.4-K			
Material	Aluminium/Color oxidation Painting			
Weight	50g			
Package Sealing	General Sealing (Standard) Hermetically sealed(Optional)			

### Environmental Conditions

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

### Absolute Maximum Ratings

<b>Supply Bias Voltage</b>	+15V
<b>RF INPUT POWER</b>	10dBm
<b>ESD sensitivity (HBm)</b>	Class 0, passed 150V

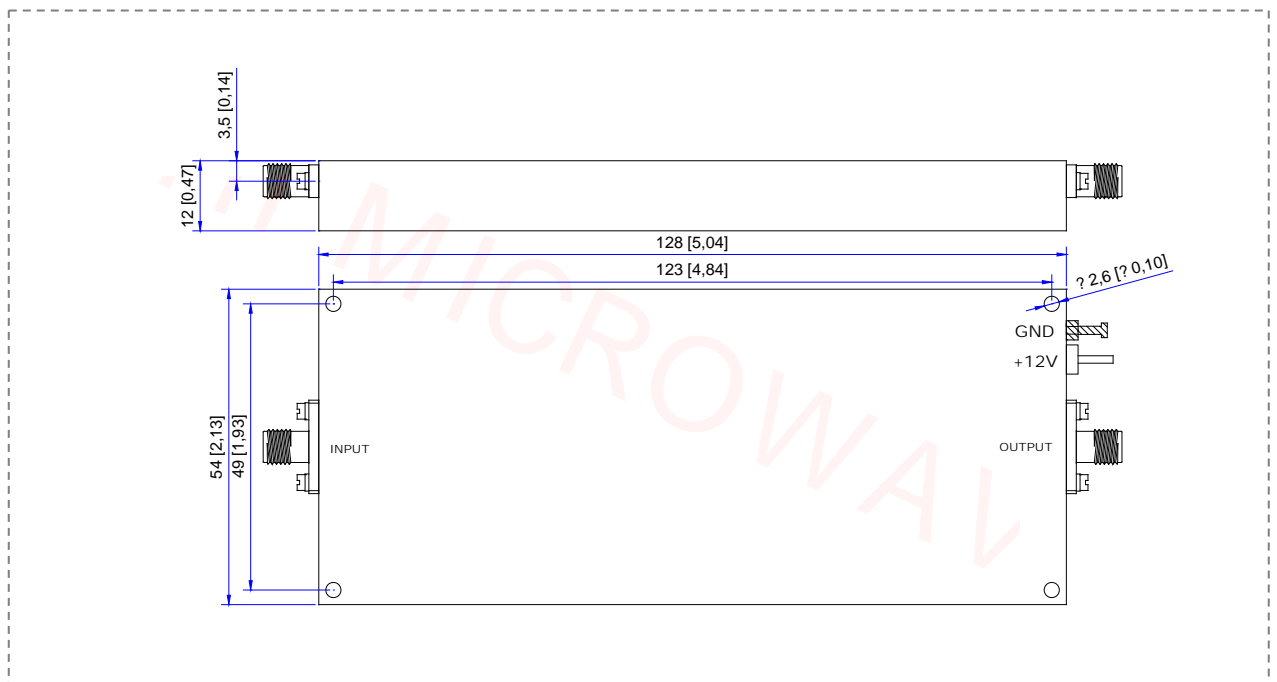


OBSERVE  
PRECAUTIONS  
ELECTROSTATIC  
SENSITIVE  
DEVICES



### Outline Drawing

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



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