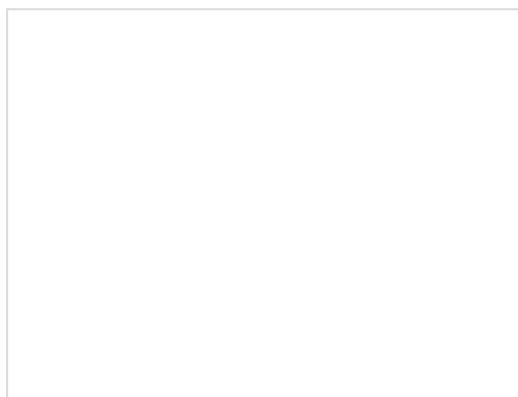




# MODEL HIPA12154030

## 12-15GHz Power Amplifier



### ■ Features

- Ultra Wide Band: 12-15GHz
- Gain: 45dB
- Output Power P-1: 30dBm
- Bias: Vd=12V;Id=0.64A

### ■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

### □ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range	12-15			GHz
Small Signal Gain	40			dB
Gain Flatness		± 1		dB
Input VSWR		1.5	2.0	-
Output VSWR		1.5	2.0	-
Output Power for 1 dB Compression (P1dB)	30			dBm
Saturated Output Power (Psat)		31		dBm
Spurious		-60		dBc
Input Max Power(no damage)			0	dBm
DC Current (Vcc=12V)		0.55	0.65	A
TTL	TTL: =0 OFF; =1 ON			
Impedance	50			Ω
Input Output Connector	SMA			
Material	Aluminium/Gold Painting			
Weight	100g			
Dimension	55mmX35mmX12mm			

### 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

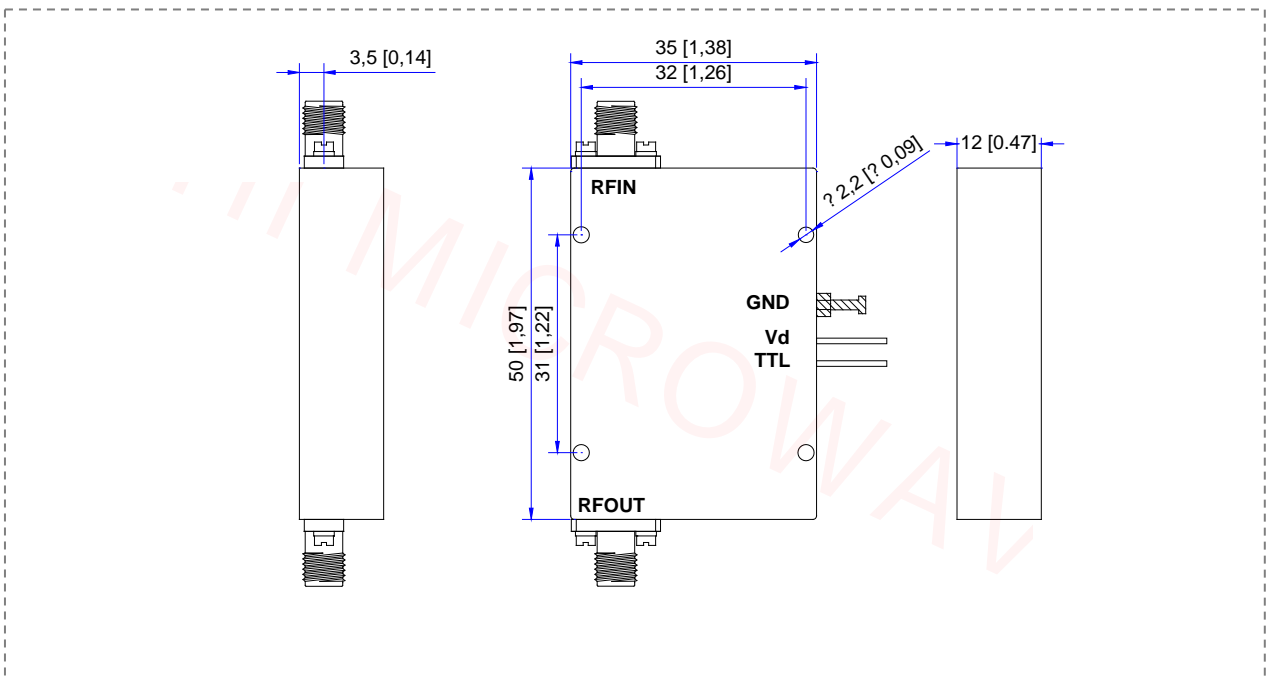
### Absolute Maximum Ratings

<b>Supply Bias Voltage</b>	+13V
<b>RF INPUT POWER</b>	0dBm
<b>ESD sensitivity (HBm)</b>	Class 0, passed 150V



### Outline Drawing

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



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