

# MODEL HIPA06183537

## 6-18GHz Power Amplifier



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

### ■ Features

- Ultra Wide Band: 6-18GHz
- Gain: 30dB
- Output Power Past: 36dBm
- Bias: Vd=12V;Id=5A

### ■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

### □ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range	6-18			GHz
Small Signal Gain	35			dB
Gain Flatness		± 1.5	± 2.5	dB
Input/Output VSWR		1.5	2.0	-
Output Power for 1 dB Compression (P1dB)		35		dBm
Saturated Output Power (Psat)	36			dBm
Input Max Power(no damage)			+10	dBm
Internally Generated Spurious		-60		dBc
DC Current (Vcc=+12V) (@Pout=5W)		4	5.5	A
Impedance	50			Ω
Input Output Connector	SMA-k/SMA-K			
Material	Aluminium			
Weight	300g			
Dimension	85mmX50mmX12mm			

### Environmental Conditions

<b>Operational Temperature</b>	-35°C~+70°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>	+12V
<b>RF INPUT POWER</b>	+10dBm
<b>ESD sensitivity (HBm)</b>	Class 0, passed 150V

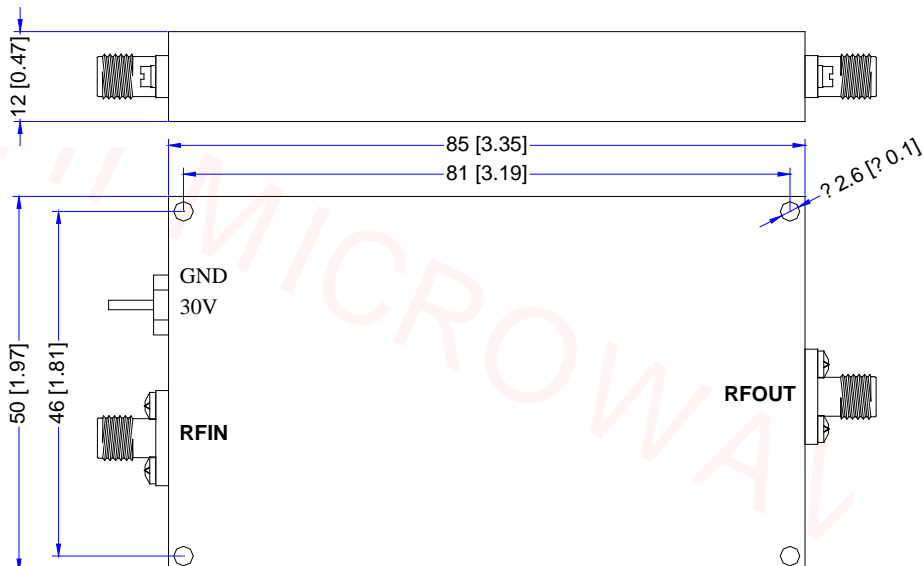


OBSERVE  
PRECAUTIONS  
ELECTROSTATIC  
SENSITIVE  
DEVICES



### Outline Drawing

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



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