

MODEL HIPA17432130

17-43GHz Power Amplifier



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

■ Features

- Ultra Wide Band: 17-43GHz
- Gain: 20dB
- Output Power: 31dBm
- High Output IP3: 40dBm

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems


□ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range	17-43			GHz
Gain	20	21		dB
Gain Flatness		±2.5		dB
Input VSWR		2.0		dB
Output VSWR		2.0		dB
Output Power for 1 dB Compression (P1dB)		30		dBm
Saturated Output Power (Psat)	28	31		dBm
Spurious		-50		dBc
Second Harmonic			-15	dBc
Input Max Power(no damage)			15	dBm
DC Current (Vcc=+12V)		1000		mA
Impedance	50			Ω
Input Output Connector	2.92			
Material	Aluminium/Conductive oxide			
Weight	50g			
Size	50mmX55mmX12mm			
Package Sealing	General Sealing (Standard) Hermetically Seal(Optional)			

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

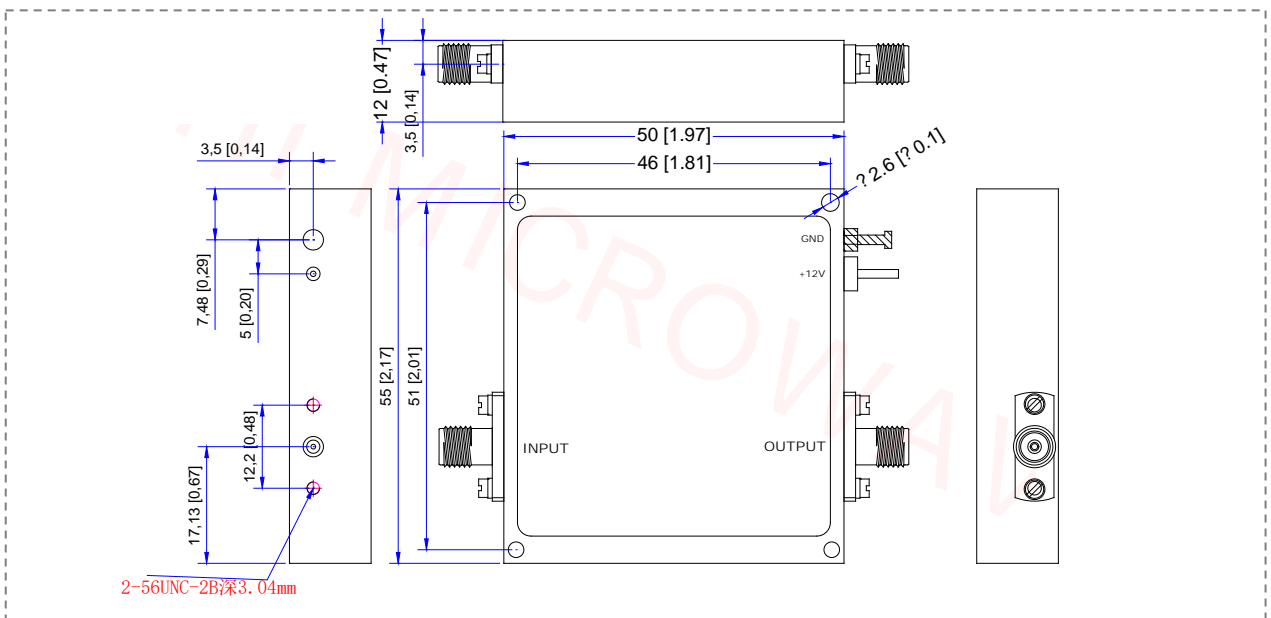
Absolute Maximum Ratings

Supply Bias Voltage	+15V	 <p>OBSERVE PRECAUTIONS ELECTROSTATIC SENSITIVE DEVICES</p>
RF INPUT POWER	15dBm	
ESD sensitivity (HBm)	Class 0, passed 150V	



Outline Drawing

All Dimensions in mm (inches) Tolerance ± 0.25 (0.01)



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