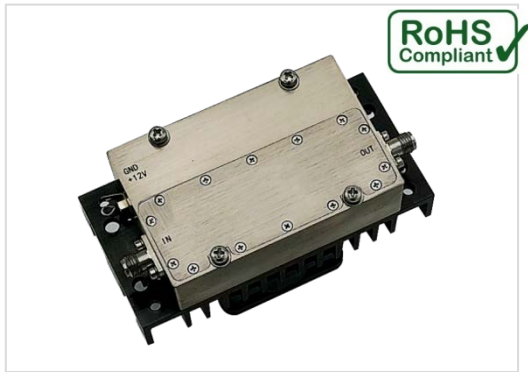


# MODEL HIPA01024040

## 1-2GHz 10W Power Amplifier



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

### ■ Features

- Ultra Broadband: 1-2GHz
- Gain: 40dB
- Output Power P-1: 40dBm
- Bias: Vd=28V;Id=2A

### ■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems


### □ Electrical Specifications

Parameter	Min	Typ	Max	Units
Frequency Range	1-2			GHz
Small Signal Gain	40			dB
Gain Flatness		±1	±2	dB
Input VSWR		1.5	1.8	-
Output Power for 1 dB Compression (P1dB)	40			dBm
Saturated Output Power (Psat)		41		dBm
Harmonic Rejection		10		dB
Spurious		-60		dBc
Input Max Power(no damage)			+5	dBm
DC Current (Vcc=+28V) (@Pout=10W)		2	4	A
Impedance	50			Ω
Input / Output Connector	SMA-K / SMA-K			
Material	Aluminum			
Weight	\			
Dimension	120mmX80mmX12mm			

### Environmental Conditions

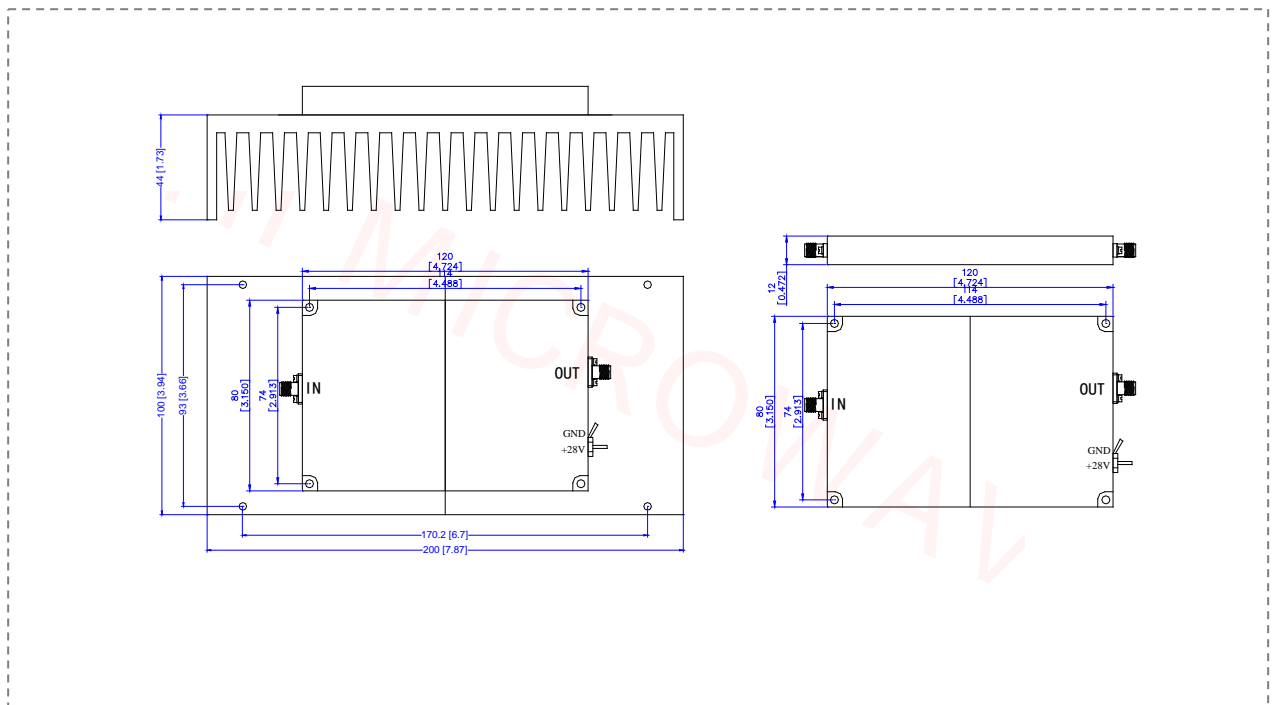
Operational Temperature	-30°C~+70°C	Vibration	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Storage Temperature	-45°C~+85°C	Shock	20G for 11msc half sin wave, 3 axis both directions
Executive Standard	MIL-STD-810G	Humidity	100% RH at 35c, 95%RH at 40°C

### Absolute Maximum Ratings

Supply Bias Voltage	+32V	 <p>OBSERVE PRECAUTIONS ELECTROSTATIC SENSITIVE DEVICES</p>
RF INPUT POWER	+5dBm	
ESD sensitivity (HBm)	Class 0, passed 150V	

### Outline Drawing

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



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