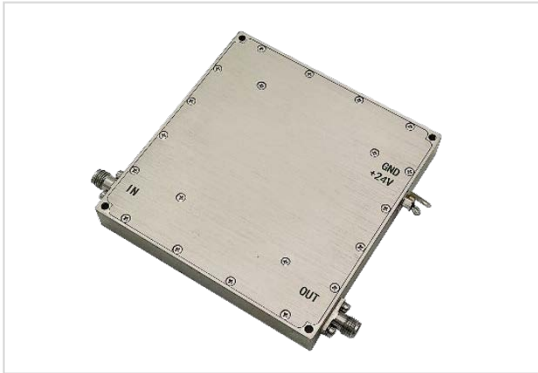


# MODEL HIPAT8034040

## 0.8-3GHz Broadband Power Amplifier



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

### ■ Features

- Ultra Broadband: 0.8-3GHz
- Gain: 40dB
- Output Power Psat: 40dBm

### ■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

### □ Electrical Specifications

Parameter	Min	Typ	Max	Units
Frequency Range	0.8-3			GHz
Small Signal Gain	40	43		dB
Gain Flatness		±3	±3.5	dB
Input VSWR		1.2	1.3	-
Output Power for 1 dB Compression (P1dB)	39	40		dBm
Saturated Output Power (Psat)		41		dBm
Noise Figure		7		dB
Harmonic Rejection		10		dB
Input Max Power(no damage)			8	dBm
DC Current (Vcc=+28V) (@Pout=10W)		2		A
Impedance	50			Ω
Input / Output Connector	SMA-K / SMA-K			
Material	Aluminum			
Weight	\			
Dimension	85mmX80mmX12mm			

### 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

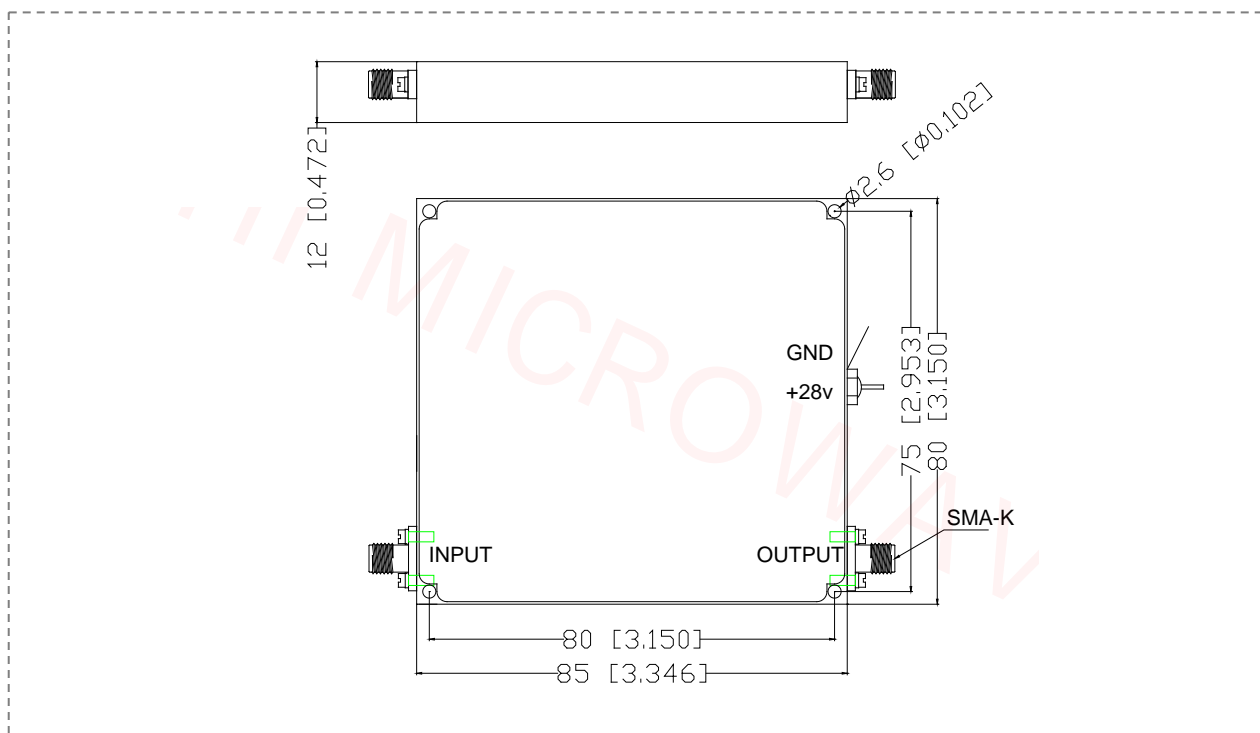
### Absolute Maximum Ratings

Supply Bias Voltage	+30V
RF INPUT POWER	+8dBm
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\*\*\***