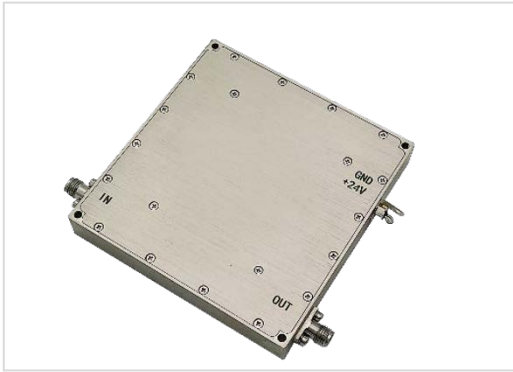


MODEL HIPA01024037

1.5-2.5GHz Broadband Power Amplifier



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

■ Features

- Ultra Broadband: 1.5-2.5GHz
- Gain: 40dB
- Output Power Psat: 38dBm
- Bias: Vd=28V;Id=1A

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications

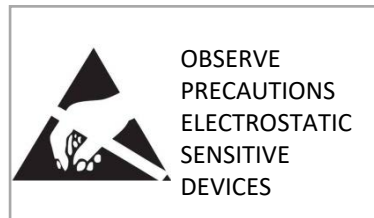
Parameter	Min	Typ	Max	Units
Frequency Range	1.5-2.5			GHz
Small Signal Gain	40	43		dB
Gain Flatness		±1.5	±2	dB
Input VSWR		1.5	2.5	-
Output Power for 1 dB Compression (P1dB)	35	36		dBm
Saturated Output Power (Psat)	37			dBm
Input Max Power(no damage)			8	dBm
DC Current (Vcc=+28V) (@Pout=7W)		0.8	1	A
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

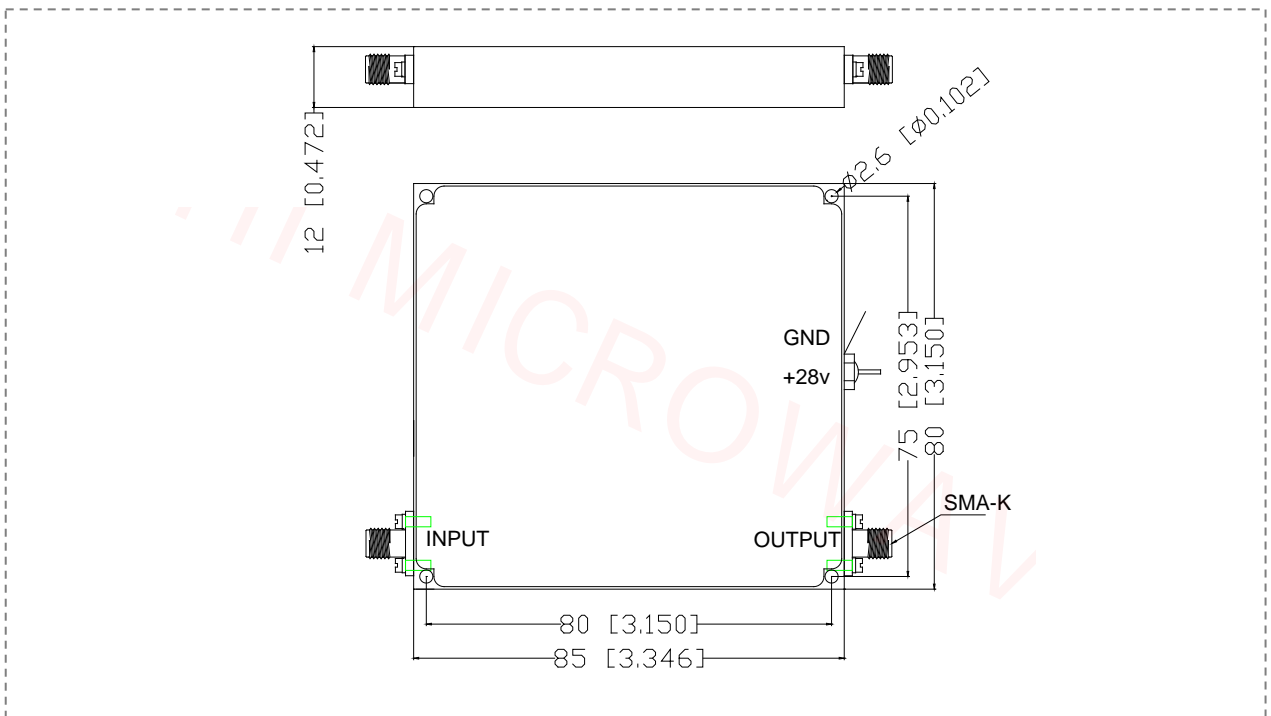
Absolute Maximum Ratings

Supply Bias Voltage	+30V
RF INPUT POWER	+10dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Outline Drawing

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



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