

MODEL HIPAT8064339

0.8-6GHz 7W Power Amplifier



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

■ Features

- Ultra Broadband: 0.8-6GHz
- 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	0.8-6			GHz
Small Signal Gain	40	43		dB
Gain Flatness		± 3	± 3.5	dB
Input VSWR		1.5	2.5	-
Output Power for 1 dB Compression (P1dB)	37	38		dBm
Saturated Output Power (Psat)		39		dBm
Harmonic Rejection	13	15		dB
Spurious		-60		dBc
Input Max Power(no damage)			8	dBm
DC Current (Vcc=+28V) (@Pout=7W)		0.8	1.5	A
Impedance	50			Ω
Input / Output Connector	SMA-Female/SMA-Female			
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

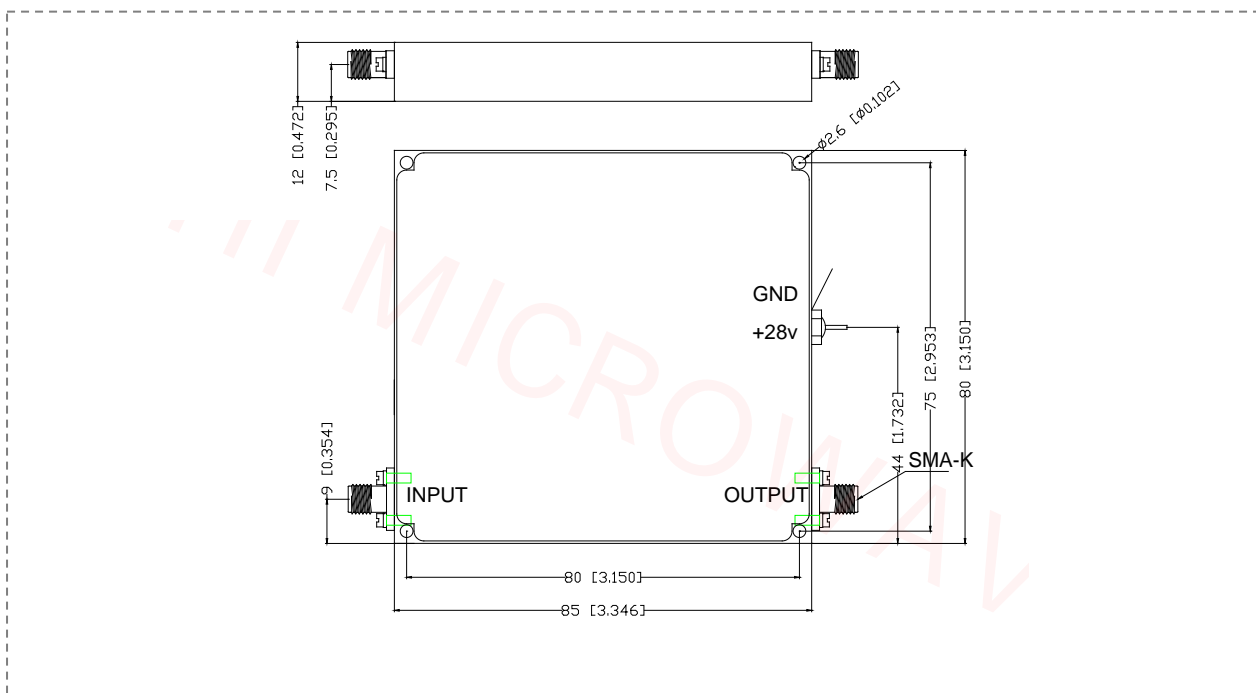
Supply Bias Voltage	+30V
RF INPUT POWER	+10dBm
ESD sensitivity (HBm)	Class 0, passed 150V



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Outline Drawing

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



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