

MODEL HIPAT5064340

0.5-6GHz 10W Power Amplifier



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

■ Features

- Ultra Broadband: 0.5-6GHz
- Gain: 40dB
- Output Power Psat: 40dBm
- Bias: Vd=30V;Id=2A

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications

Parameter	Min	Typ.	Max.	Units
Frequency Range	0.5-6			GHz
Small Signal Gain	40	43		dB
Gain Flatness		±2.5	±3.5	dB
Input VSWR		1.5	2.5	-
Output Power for 1 dB Compression (P1dB)	37	38		dBm
Saturated Output Power (Psat)	40			dBm
Harmonic Rejection	13	15		dB
Spurious		-60		dBc
Input Max Power(no damage)			8	dBm
DC Current (Vcc=+30V) (@Pout=10W)		2		A
Impedance	50			Ω
Input / Output Connector	SMA-K / SMA-K			
Material	Aluminum			
Weight	\			
Dimension	125mmX95mmX12mm			

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

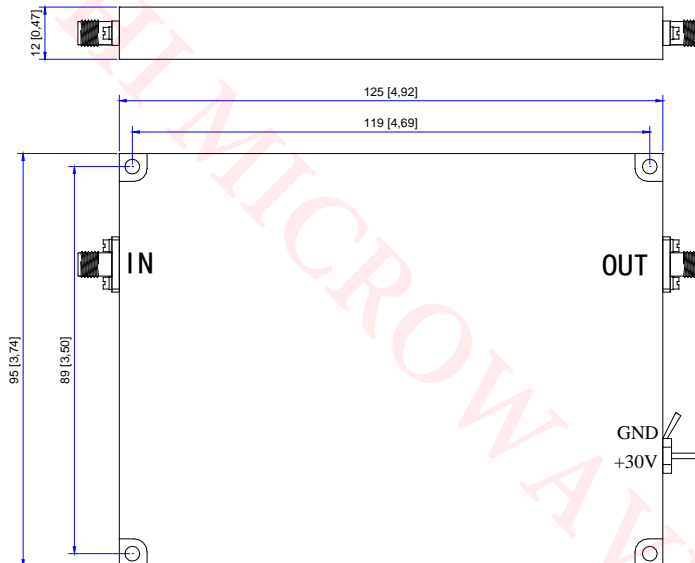
Supply Bias Voltage	+32V
RF INPUT POWER	+8dBm
ESD sensitivity (HBm)	Class 0, passed 150V



OBSERVE PRECAUTIONS
ELECTROSTATIC
SENSITIVE
DEVICES

Outline Drawing

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



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

Performance Plot

Input VSWR&Output VSWR&Gain

