

MODEL HIPAT7073030

0.7-7.5GHz Power Amplifier



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

■ Features

- Ultra Wide Band: 0.7-7.5GHz
- Gain: 30dB
- Output Power P-1: 27dBm
- Bias: Vd= 24V; Id= 0.8A

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range	0.7-7.5			GHz
Small Signal Gain	30	33		dB
Gain Flatness		±1.5		dB
Input VSWR		1.6		-
Output Power for 1 dB Compression (P1dB)		29		dBm
Saturated Output Power (Psat)	30			dBm
Input Max Power(no damage)			10	dBm
OIP3		40		dBm
DC Current (Vcc=+24V) (@Pout= 1W)		800		mA
Impedance	50			Ω
Input/ Output Connector	SMA-Female			
Material	copper			
Finishing	Gold Painting			
Weight	280g			
Package Sealing	General Sealing (Standard)			

Environmental Conditions

Operational Temperature	-45°C~+85°C	Vibration	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Storage Temperature	-55°C~+125°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
Altitude	30,000 ft. (Epoxy Seal Controlled environment)	Optional	60,000 ft 1.0psi min (Hermetically Seal Un- controlled environment)

Absolute Maximum Ratings

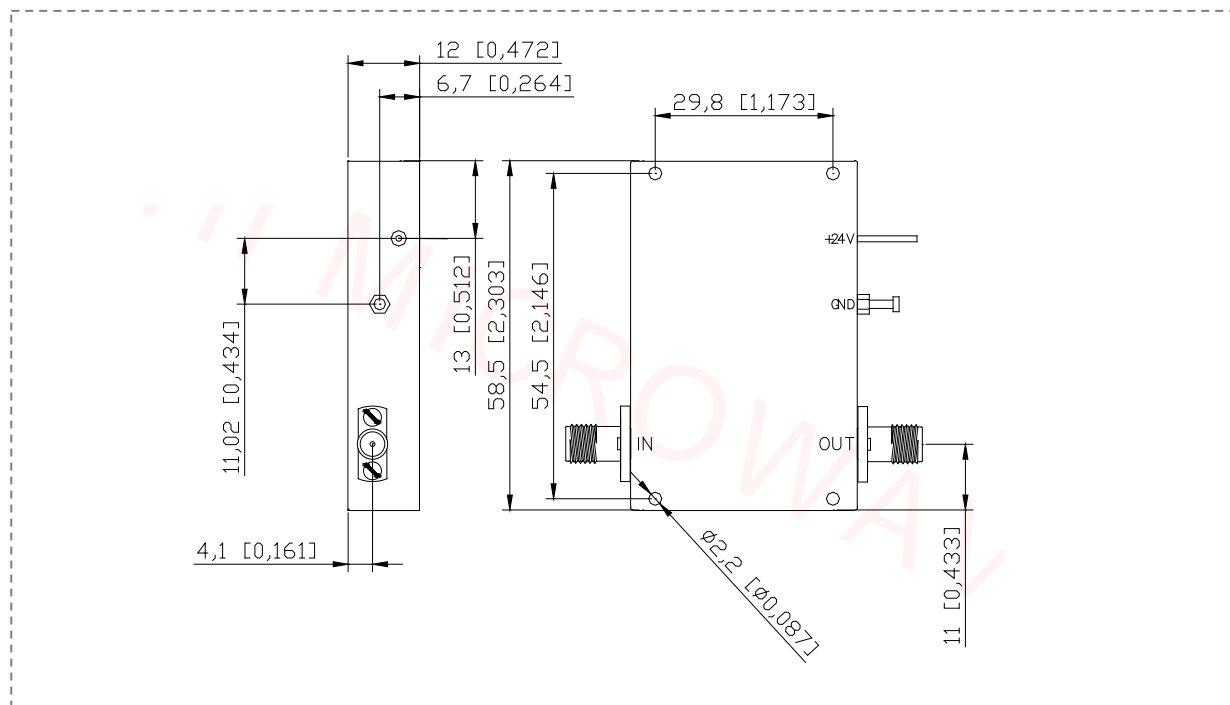
Supply Bias Voltage	+23~25V
RF INPUT POWER	10dBm
ESD sensitivity (HBm)	Class 0, passed 150V



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Outline Drawing

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



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