

MODEL HIPAT6064745

0.6-6GHz 30W Power Amplifier



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

■ Features

- Ultra Wide Band: 0.6-6GHz
- Gain: 47dB
- Output Power Psat: 47dBm
- Bias: Vd=30V;Id=4A

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications

Parameter	Min.	Typ.	Max.	Units
Frequency Range	0.6-6			GHz
Small Signal Gain	45	47		dB
Gain Flatness		±2.5	±5	dB
Input VSWR		1.5	2.0	-
Output Power for 1 dB Compression (P1dB)	43	44		dBm
Saturated Output Power (Psat)		45		dBm
Harmonic Rejection		15		dB
Spurious		-60		dBc
Input Max Power(no damage)			5	dBm
DC Current (Vcc=+28~30V) (@Pout=30W)		4000	5000	mA
Impedance	50			Ω
Input Output Connector	SMA-Female/SMA-Female			
Material	Aluminium			
Weight	700g			
Package Sealing	General Sealing (Standard)			

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

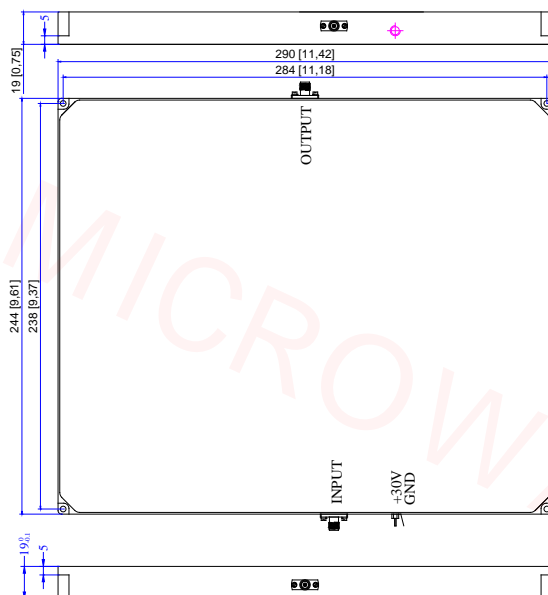
Supply Bias Voltage	+32V
RF INPUT POWER	+5dBm
ESD sensitivity (HBm)	Class 0, passed 150V



OBSERVE
PRECAUTIONS
ELECTROSTATIC
SENSITIVE
DEVICES

Outline Drawing

All Dimensions in mm (.inches) . Tolerance ± 0.25 (.01)



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