

MODEL HIPA02065348

2-6GHz Broadband Power Amplifier



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

■ Features

- Ultra Wide Band: 2-6GHz
- Gain: 55dB
- Output Power Psat: 49dBm
- Bias: Vd=28V;Id=12A

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications


Parameter	Min.	Typ.	Max	Units
Frequency Range	2-6			GHz
Small Signal Gain	50	53		dB
Power Gain Flatness		±3	±4	dB
Input /Output VSWR		1.5	2.0	-
Output Power for 1 dB Compression (P1dB)		50		W
Saturated Output Power (Psat)	75			W
Input Max Power(no damage)			10	dBm
Internally Generated Spurious	-60			dBc
Noise Power Density (-40 dBm/MHz)			-40	dBm
Harmonics		12		dBc
Spurious Non-harmonics	-60			dBc
DC Current (Vcc=+28V) (@Pout75W)		10	13	A
Impedance	50			Ω
TTL Control "Low"/"High"	Low: Enable / High: Disable			
Control Connector DB9	Pin: 1,2,3 VD; 4 TTL, 5 6 NC;7,8,9 GND			
Input Output Connector	SMA-k/SMA-K			
Material	Aluminium			
Weight	1000g			
Dimension	300X190X19mm			

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

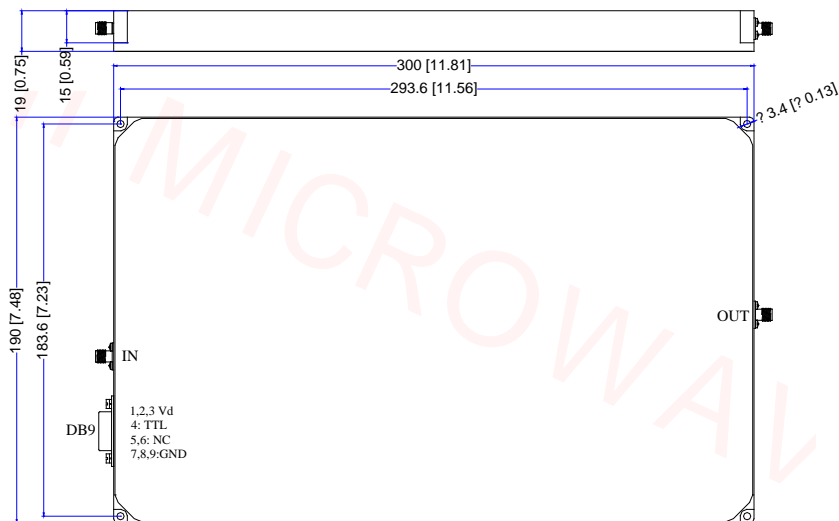


OBSERVE
PRECAUTIONS
ELECTROSTATIC
SENSITIVE
DEVICES



Outline Drawing

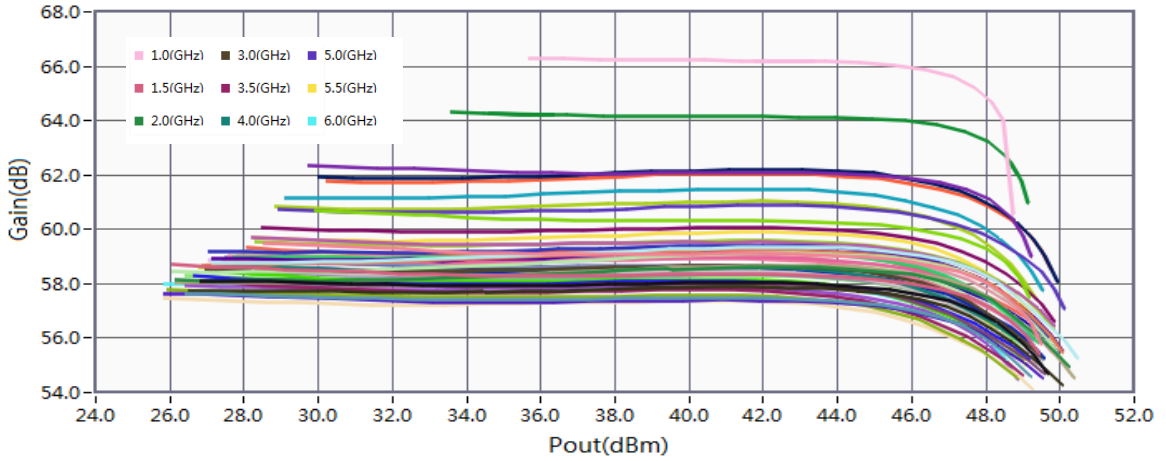
All Dimensions in mm (inches) Tolerance ± 0.25 (0.01)



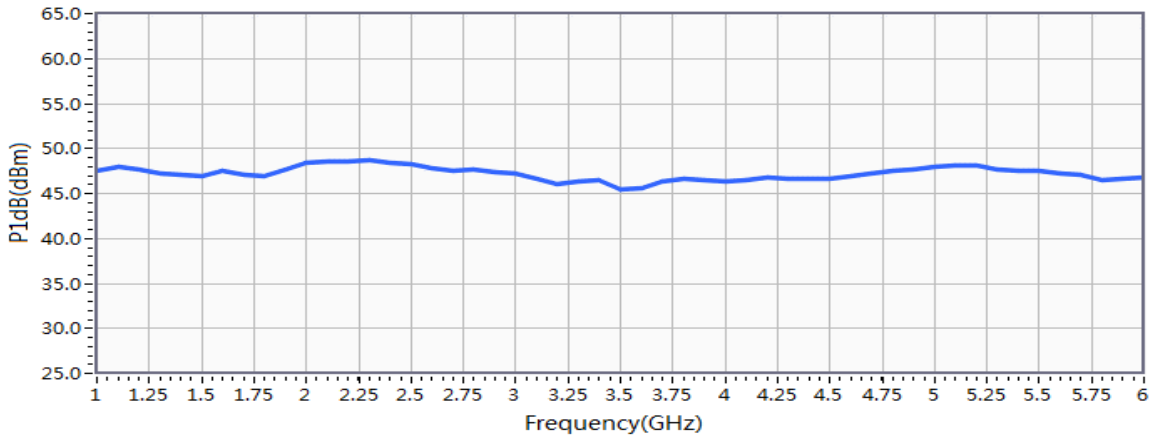
*****Heat Sink required during operation*****

Typical Performance

Gain vs. Pout



P1dB vs. Frequency



P3dB vs. Frequency

