

MODEL HIPA02065043

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: 50dB
- Output Power Psat: 43dBm

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range	2-6			GHz
Small Signal Gain	50			dB
Gain Flatness		± 1.25		dB
Input /Output VSWR		1.5	2.0	dB
Saturated Output Power (Psat)	41	43		dBm
Harmonic Rejection		15		dB
Efficiency		30		%
Noise Figure			7	dB
Spurious		-60		dBc
Input Max Power(no damage)			0	dBm
DC Current (Vcc=+28V) (@Pout=20W)		3	5	A
TTL Control	1:Off; 0:ON			
Impedance	50			Ω
Input Output Connector	SMA-k/SMA-K			
Material	Aluminium			
Package Sealing	General Sealing (Standard)			

Environmental Conditions

Operational Temperature	0°C~+50°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

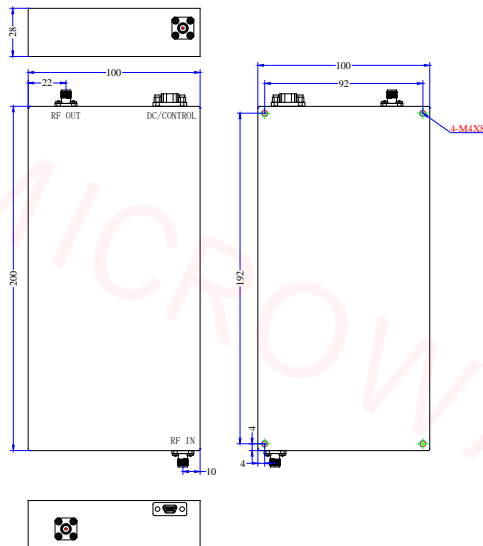
Absolute Maximum Ratings

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



Outline Drawing

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



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