

HXPA1081G Power Amplifier

1. Description

ID	Items	Specifications
1-1	Type	Power Amplifier
1-2	Frequency Range	0.03GHz ~ 2GHz
1-3	Gain	$\geq 40\text{dB}$
1-4	Gain Flatness	$\leq \pm 2.5\text{dB}$
1-5	Output 1dB Compression Point(P1dB)	/
1-6	Saturated Output Power(Psat)	$\geq 37\text{dBm}$
1-7	Input VSWR	≤ 2.0
1-8	Isolation S12	$\geq 60\text{dB}$
1-9	Spurious	$\leq -60\text{dBc}$
1-10	Harmonics	-10dBc Typical
1-11	Noise Figure	$\leq 5.0\text{dB}$
1-12	Impedance	50 Ω
1-13	Input/Output Connectors	SMA-F
1-14	Control Connectors	DB9-Male
1-15	DC Power Supply	+28V/ $\leq 1.5\text{A}$
1-16	Efficiency@Psat	15% Typical

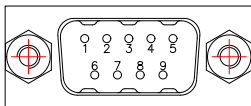
2. Absolute Maximum Ratings

ID	Parameter	Rating
2-1	Operating Voltage	28V ~ 30V
2-2	RF Input Power	$\leq 5\text{dBm}$
2-3	Include voltage protection, current protection and temperature protection	

3. Environmental Specifications

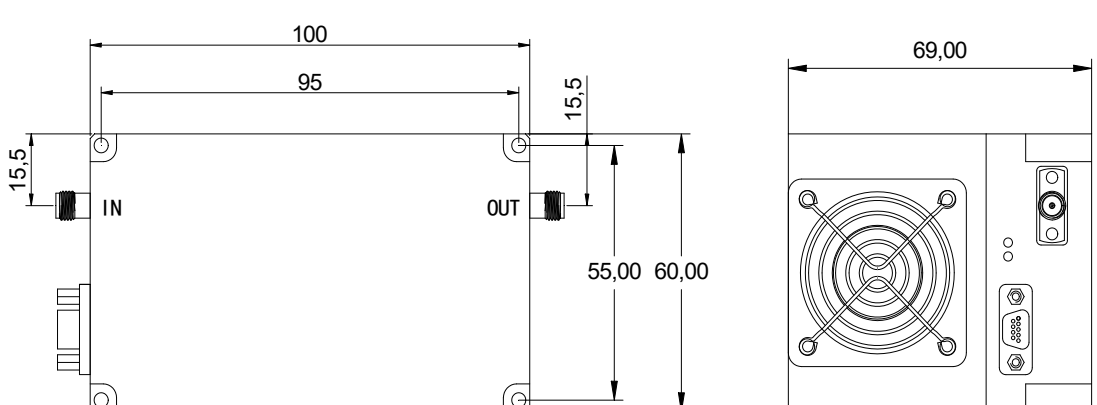
ID	Items	Specifications
3-1	Application Environment	CW/PL
3-2	Operational Temperature	-40°C ~ +70°C
3-3	Storage Temperature	-55°C ~ +85°C

4. Interface

ID	Items	Specifications
4-1	Control Connectors	DB9 Male
		
4-2	NO	Specifications

	1,2,3,4	28V/DC
	5,6,7,8	GND
	9	TTL(0V=OFF/3.3V ~ 5V=ON)

5. Outline Drawing

ID	Items	Specifications
5-1	Outline Drawing	Unit: mm
Tolerances: $\pm 0.5\text{mm}$		
		
5-2	Material	Aluminum
5-3	Finished	Nickel Plated
5-4	Weight	$\leq 160\text{g}$

6. Attention

6-1	Avoid damage amplifier, should be take the ESD protection during use .
6-2	Avoid using amplifier in extreme temperature, humidity, or corrosive environments.
6-3	Good grounding can reduce EMI and RFI.
6-4	Adding an isolator to the RF_OUT port can avoid damage amplifier by power reflection.

NOTE: ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.