

HXPA9081G Power Amplifier

1. Description

ID	Items	Specifications
1-1	Type	Power Amplifier
1-2	Frequency Range	0.1GHz~18GHz
1-3	Gain	$\geq 16\text{dB}$
1-4	Gain Flatness	$\leq \pm 1.0\text{dB}$ Typical
1-5	Output 1dB Compression Point(P1dB)	$\geq 28\text{dBm}$ Typical
1-6	Saturated Output Power (Psat)	/
1-7	Input VSWR	≤ 2.5
1-8	Isolation S12	$\geq 20\text{dB}$
1-9	Spurious	$\leq -60\text{dBc}$
1-10	Noise Figure	5.0dB Typical
1-11	Impedance	50 Ω
1-12	Input/ Output Connectors	SMA-F
1-13	DC Power Supply	+12V / $\leq 500\text{mA}$

2. Absolute Maximum Ratings

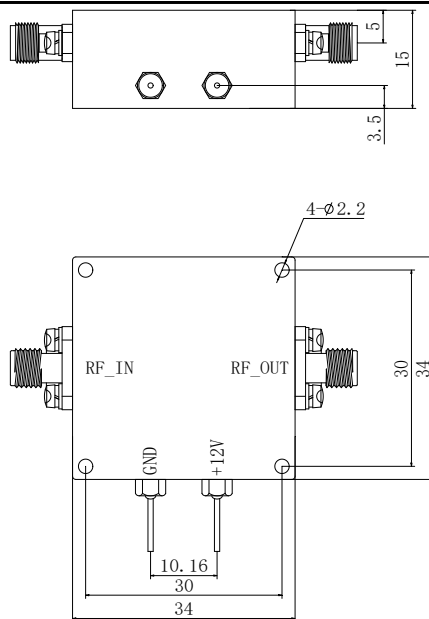
ID	Parameter	Rating
2-1	Operating Voltage	+12V
2-2	RF Input Power	$\leq 15\text{dBm}$

3. Environmental Specifications

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

4. Outline Drawing

ID	Items	Specifications
4-1	Outline Drawing	Unit: mm
Tolerances: $\pm 0.2\text{mm}$		



4-2	Material	Aluminum
4-3	Finish	Nickel Plated
4-4	Weight	50g

5. Note

5-1	Should be take the ESD protection during use.
5-2	Exceeding the rated input power limit may cause the product to burn out.
5-3	Avoid using in extreme temperature, humidity, or corrosive environments.
5-4	Good grounding can reduce EMI and RFI.
5-5	All specifications are subject to change without notice at any time.