

HXPA3081G-2W Power Amplifier

1. Description

ID	Items	Specifications
1-1	Type	Power Amplifier
1-2	Frequency Range	0.3GHz ~ 6GHz
1-3	Gain	≥35dB
1-4	Gain Flatness	≤±2.0dB Typical
1-5	Output 1dB Compression Point(P1dB)	≥29dBm Typical
1-6	Saturated Output Power (Psat)	≥33dBm
1-7	Input VSWR	≤2.0
1-8	Isolation S12	≥40dB
1-9	Spurious	≤-60dBc
1-10	Harmonic	-10dBc Typical
1-11	Noise Figure	≤3.5dB
1-12	Impedance	50Ω
1-13	Input/ Output Connectors	SMA-F
1-14	Control Connectors	Feed through Capacitor
1-15	Control	TTL(0V ~ 0.8V=OFF/3.3V ~ 5V=ON)
1-16	DC Power Supply	+28V/≤0.6A
1-17	Efficiency @ Psat	18% Typical

2. Absolute Maximum Ratings

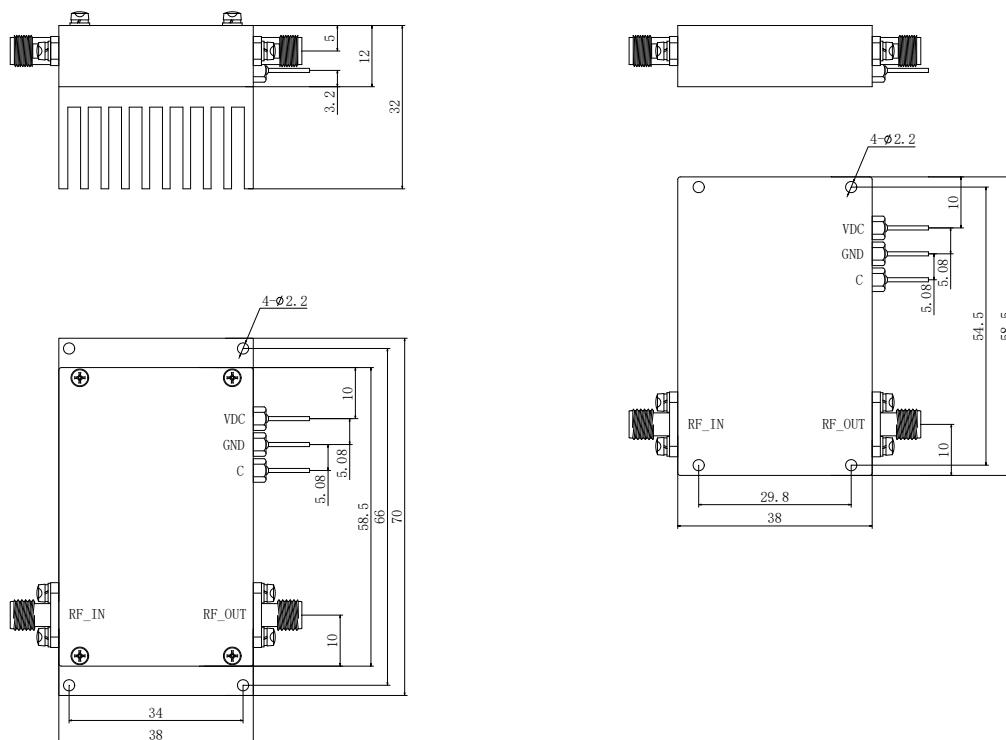
ID	Parameter	Rating
2-1	Operating Voltage	+28V~+30V
2-2	RF Input Power	≤5dBm

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:±0.2mm		



4-2	Material	Aluminum
4-3	Finish	Nickel Plated
4-4	Weight	130g

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.