

HXPA2992G-10W Power Amplifier

1. Description

ID	Items	Specifications
1-1	Type	Power Amplifier
1-2	Frequency Range	16GHz ~ 40GHz
1-3	Gain	≥44dB
1-4	Gain Flatness	≤±4.5dB Typical
1-5	Saturated Output Power(Psat)	≥40dBm Typical
1-6	Output 1dB Compression Point(P1dB)	≥33dBm
1-7	Input VSWR	≤2.5
1-8	Isolation S12	≥50dB
1-9	Spurious	≤-60dBc
1-10	Harmonics	/
1-11	Noise Figure	/
1-12	Impedance	50Ω
1-13	Input/Output Connectors	2.92mm-F
1-14	Control Connectors	Feedthrough Capacitor
1-15	DC Power Supply	+24V/≤4A
1-16	Efficiency@Psat	15% Typical

2. Absolute Maximum Ratings

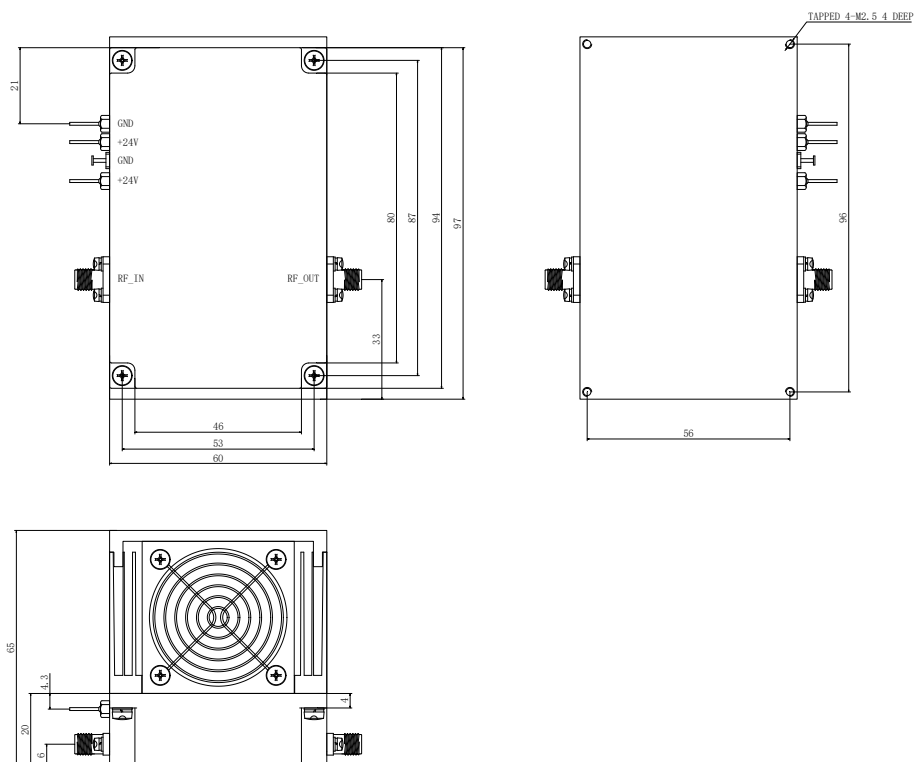
ID	Parameter	Rating
2-1	Operating Voltage	+24V ~ +30V
2-2	RF Input Power	≤5dBm

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. Outline Drawing

ID	Items	Specifications
4-1	Outline Drawing	Unit: mm
Tolerances:±0.5mm		



4-2	Material	Aluminum
4-3	Finish	Aluminum conductive coating
4-4	Weight	/

5. Attention

5-1	Avoid damage amplifier, should be take the ESD protection during use .
5-2	Avoid using amplifier in extreme temperature, humidity, or corrosive environments.
5-3	Good grounding can reduce EMI and RFI.
5-4	Adding an isolator to the RF_OUT port can avoid damage amplifier by power reflection.
5-5	Ensure proper heat sinking of the power amplifier to preclude damage caused by excessive temperature rise during prolonged operation.
5-6	All specifications are subject to change without notice at any time.