

HXPA1691G Power Amplifier

1. Description

ID	Items	Specifications
1-1	Type	Power Amplifier
1-2	Frequency Range	10 ~ 18GHz
1-3	Gain	≥50dB
1-4	Gain Flatness	≤±2.5dB
1-5	Output 1dB Compression Point(P1dB)	/
1-6	Saturated Output Power(Psat)	≥43dBm
1-7	Input VSWR	≤2.0
1-8	Isolation S12	≥70dB
1-9	Spurious	≤-65dBc
1-10	Harmonics	-15dBc Typical
1-11	Noise Figure	≤3.5dB
1-12	Impedance	50Ω
1-13	Input/Output Connectors	SMA-F
1-14	Control Connectors	DB-9 Male
1-15	DC Power Supply	+28V/≤3.5A
1-16	Efficiency@Psat	30% Typical

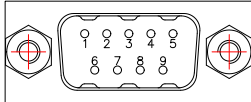
2. Absolute Maximum Ratings

ID	Parameter	Rating
2-1	Operating Voltage	28V ~ 30V
2-2	RF Input Power	≤10dBm
2-3	Include voltage protection, current protection and temperature protection	

3. Environmental Specifications

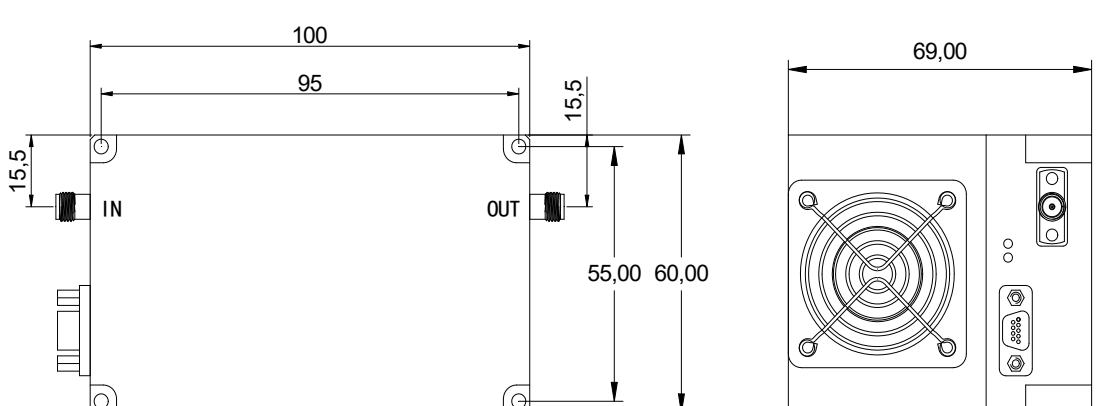
ID	Items	Specifications
3-1	Operational Temperature	-40°C ~ +70°C
3-2	Storage Temperature	-55°C ~ +85°C

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(0 ~ 0.8V=ON/3.3 ~ 5V=OFF)

5. Outline Drawing

ID	Items	Specifications
5-1	Outline Drawing	Unit: mm
Tolerances:±0.5mm 		
5-2	Material	Aluminum
5-3	Finished	Natural Color
5-4	Weight	160g

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.