

# HXPA1691G Power Amplifier

## 1. Description

NO	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)	≥40dBm
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@39dBm	≤-30dBc 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

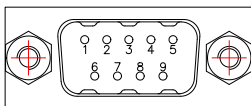
## 2. Absolute Maximum Ratings

NO	Parameter	Rating
2-1	Operating Voltage	28V±0.5V
2-2	RF Input Power	≤10dBm
2-3	Include voltage protection, current protection and temperature protection	

## 3. Environmental Specifications

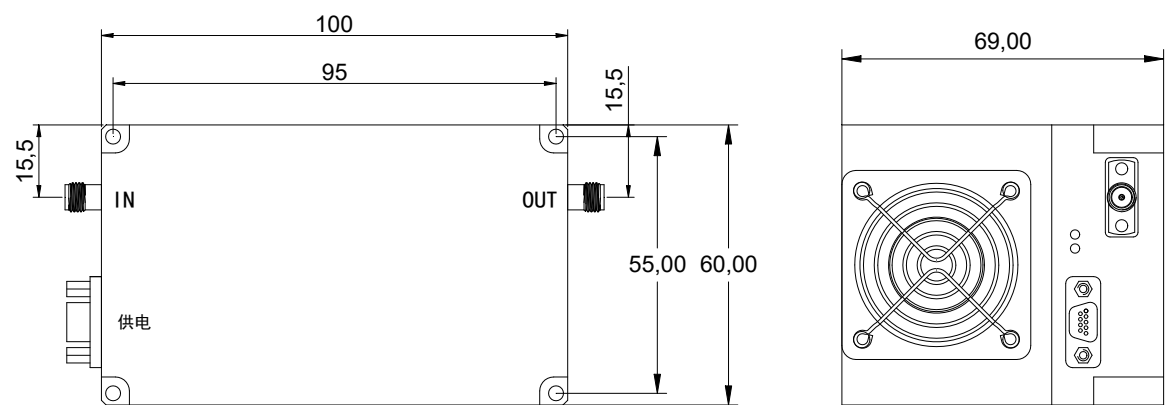
NO	Items	Specifications
3-1	Operational Temperature	-40°C ~ +70°C
3-2	Storage Temperature	-55°C ~ +85°C

## 4. Interface

NO	Items	Specifications
4-1	Control Connectors	DB9 Male
		
4-2	<b>NO</b>	<b>Specifications</b>
	1、2、3、4	28V/DC

	5、6、7、8	GND
	9	TTL(0~0.8V=ON/3.3~5V=OFF)

### 5. Outline Drawing

NO	Items	Specifications
5-1	Outline Drawing	Unit: mm
Tolerances:±0.5mm		
		
5-2	Material	Aluminum
5-3	Finish	Natural Color
5-4	Weight	/

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