

# HXPA1291G Power Amplifier

## 1. Description

ID	Items	Specifications
1-1	Type	Power Amplifier
1-2	Frequency Range	6GHz ~ 18GHz
1-3	Gain	≥50dB
1-4	Gain Flatness	≤±3.0dB
1-5	Output 1dB Compression Point(P1dB)	/
1-6	Saturated Output Power(Psat)	43dBm Typical
1-7	Input VSWR	≤2.0
1-8	Isolation S12	≥70dB
1-9	Spurious	≤-60dBc
1-10	Harmonics	-12dBc Typical
1-11	Noise Figure	≤4.0dB
1-12	Impedance	50Ω
1-13	Input/Output Connectors	SMA-F
1-14	Control Connectors	DB9-Male
1-15	DC Power Supply	+28V/≤3.5A
1-16	Efficiency@Psat	25% Typical

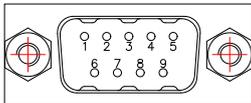
## 2. Absolute Maximum Ratings

ID	Parameter	Rating
2-1	Operating Voltage	28V ~ 30V
2-2	RF Input Power	≤5dBm
2-3	Include voltage protection, current protection and temperature protection	

## 3. Environmental Specifications

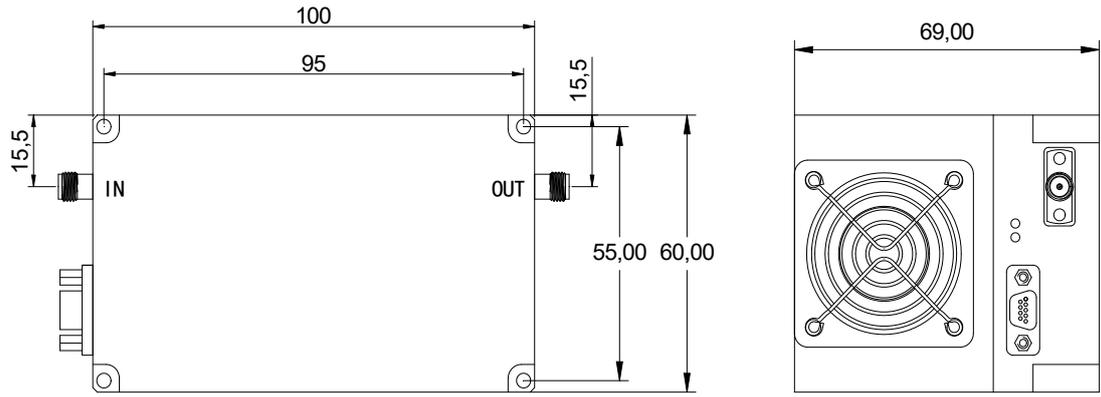
ID	Items	Specifications
3-1	Application Environment	CW/PL
3-2	Operational Temperature	-40°C ~ +70°C
3-3	Storage Temperature	-55°C ~ +85°C

## 4. 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(0V=OFF/3.3V ~ 5V=ON)

## 5. Outline Drawing

ID	Items	Specifications
5-1	Outline Drawing	Unit: mm
Tolerances:±0.5mm		
		
5-2	Material	Aluminum
5-3	Finished	Nickel Plated
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.