

# HXPA2691G Power Amplifier

## 1. Description

| ID   | Items                              | Specifications                |
|------|------------------------------------|-------------------------------|
| 1-1  | Type                               | Power Amplifier               |
| 1-2  | Frequency Range                    | 15GHz~42GHz                   |
| 1-3  | Gain                               | $\geq 28\text{dB}$            |
| 1-4  | Gain Flatness                      | $\leq \pm 3\text{dB}$ Typical |
| 1-5  | Output 1dB Compression Point(P1dB) | $\geq 28\text{dBm}$ Typical   |
| 1-6  | Saturated Output Power (Psat)      | /                             |
| 1-7  | Input VSWR                         | $\leq 2.5$                    |
| 1-8  | Isolation S12                      | $\geq 40\text{dB}$            |
| 1-9  | Spurious                           | $\leq -60\text{dBc}$          |
| 1-10 | Noise Figure                       | $\leq 7\text{dB}$ Typical     |
| 1-11 | Impedance                          | $50\Omega$                    |
| 1-12 | Input/ Output Connectors           | 2.92mm-F                      |
| 1-13 | DC Power Supply                    | +12V / $\leq 800\text{mA}$    |

## 2. Absolute Maximum Ratings

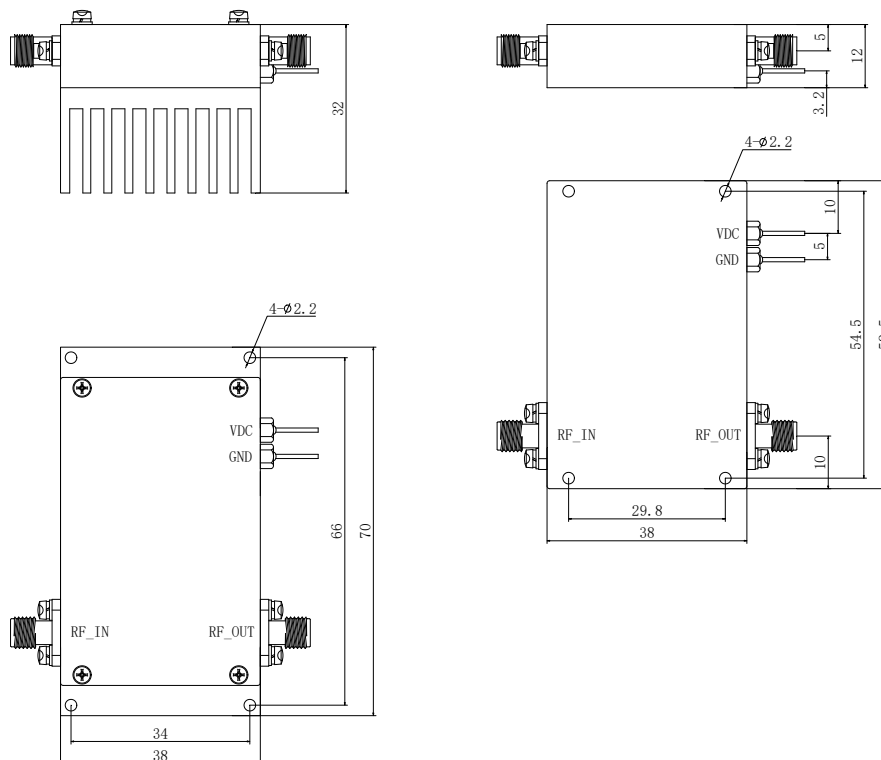
| ID  | Parameter         | Rating              |
|-----|-------------------|---------------------|
| 2-1 | Operating Voltage | +12V ~ 28V          |
| 2-2 | RF Input Power    | $\leq 10\text{dBm}$ |

## 3. Environmental Specifications

| ID  | Items                   | Specifications                                 |
|-----|-------------------------|------------------------------------------------|
| 3-1 | Working Condition       | CW/PL                                          |
| 3-2 | Operational Temperature | $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$ |
| 3-3 | Storage Temperature     | $-55^{\circ}\text{C} \sim +85^{\circ}\text{C}$ |

## 4. Outline Drawing

| ID                             | Items           | Specifications |
|--------------------------------|-----------------|----------------|
| 4-1                            | Outline Drawing | Unit: mm       |
| Tolerances: $\pm 0.2\text{mm}$ |                 |                |



|     |          |               |
|-----|----------|---------------|
| 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.     |