



Power Amplifier

Model: PA-0G6-4G2-25

0.6-4.2GHz 25W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 0.6-4.2GHz
- High output power at saturation, 25W Typ.
- High gain, 46 dB Typ.
- 50 Ohm Matched Input / Output.

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Product Overview:

The PA-0G6-4G2-25 is a power amplifier with a typical gain of 46 dB and a nominal P_{sat} of 25W across the frequency range of 0.6 to 4.2GHz. The DC power requirement for the amplifier is +28 VDC/3.5 A. The input and output port configuration offers coax adapter structure with SMA female.



Electrical Specifications at 25°C:

| Parameter | Min | Typ | Max | Units |
|-------------------|-----|-----|-----|-------|
| Frequency range | 0.6 | | 4.2 | GHz |
| Gain | 41 | 46 | | dB |
| Gain Flatness | | ±2 | | dB |
| Output P1dB | 38 | 41 | | dBm |
| Output Psat | 42 | 44 | | dBm |
| Noise Figure | | 10 | | dB |
| Input VSWR | | 1.5 | 2 | :1 |
| DC Voltage | +26 | +28 | +30 | V DC |
| DC Supply Current | | 3.5 | | A |
| Impedance | | 50 | | Ohms |

Mechanical Specifications:

| Parameter | Value | Notes |
|---------------------------------|---|-------|
| Operating Temperature* | -40°C to +75°C | |
| Non-operating Temperature* | -55°C to +125°C | |
| Relative humidity | 95% | |
| RF Input/Output Connector | SMA Female/SMA Female | |
| DC Bias | Solder Pin | |
| Altitude | 30,000 | feet |
| Shock / Vibration(MIL-STD-810F) | 20g,11ms,saw-tooth | |
| Shock(non operating) | 20G for 11msc half sin wave,3 axis both directions | |
| Dimensions W x H x D | 170*110*25(Without Heatsink) 264*140*87(With Heatsink) | mm |
| Weight | 150 | g |

*Note: For a wider temperature range, please consult the manufacturer.

Absolute Maximum Ratings:

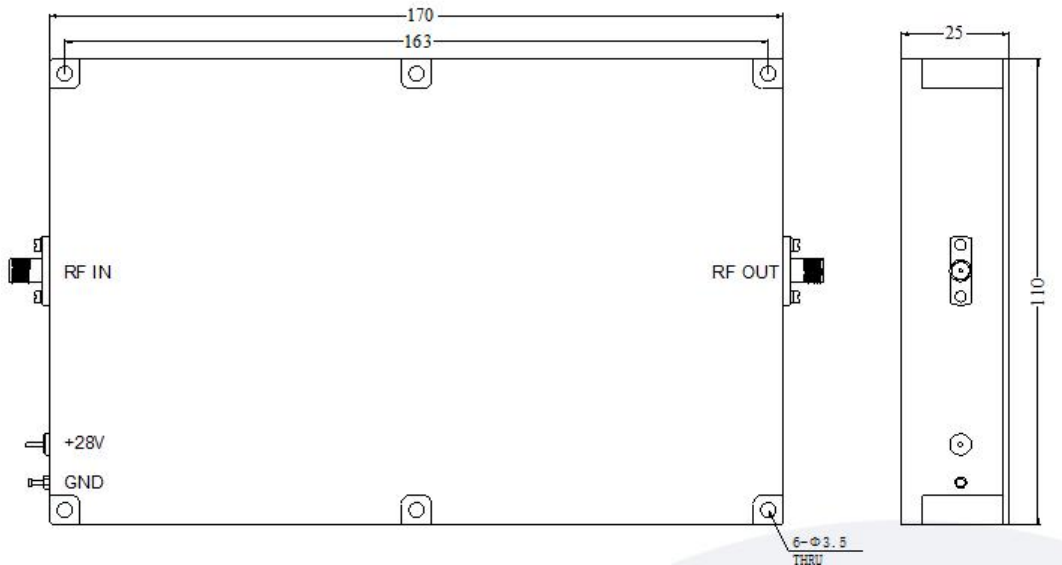
| Parameter | Value |
|-----------------------|----------------------|
| Supply Bias Voltage | +30 V |
| RF Input Power | -3 dBm |
| ESD sensitivity (HBm) | Class 0, passed 150V |



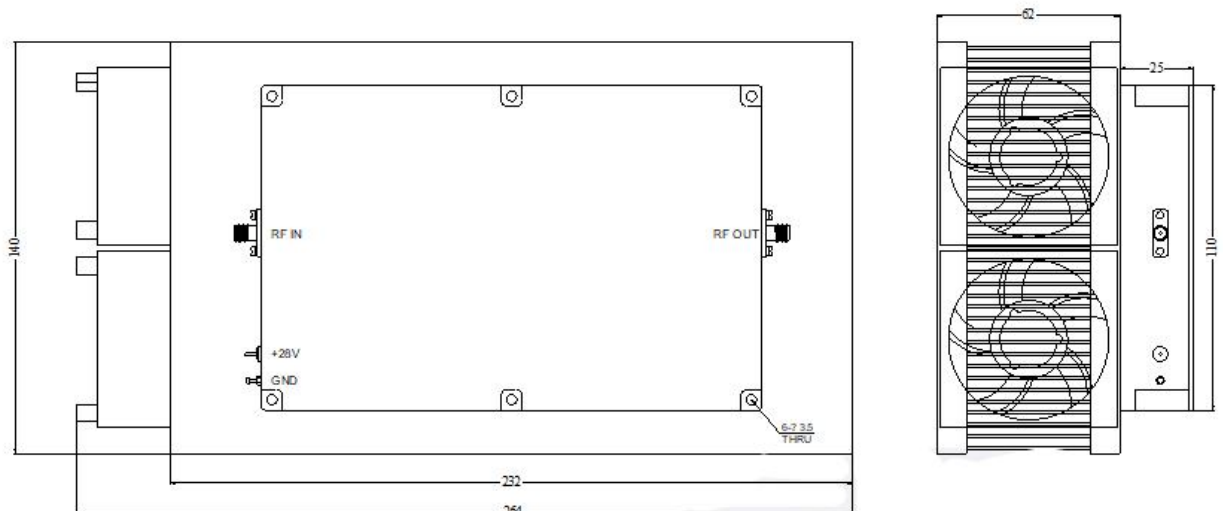
Outline Drawing:

Unit:mm

PA-0G6-4G2-25



PA-0G6-4G2-25-HS



Ordering Information:

| Base Number | Description | Optional |
|------------------|--|------------------|
| PA-0G6-4G2-25 | Power Amplifier, 0.6-4.2GHz, Gain:46dB,Psat:25W,+28V DC | Without Heatsink |
| PA-0G6-4G2-25-HS | Power Amplifier, 0.6-4.2GHz, Gain:46dB,Psat:25W,+28V DC | With Heatsink |