## Performance

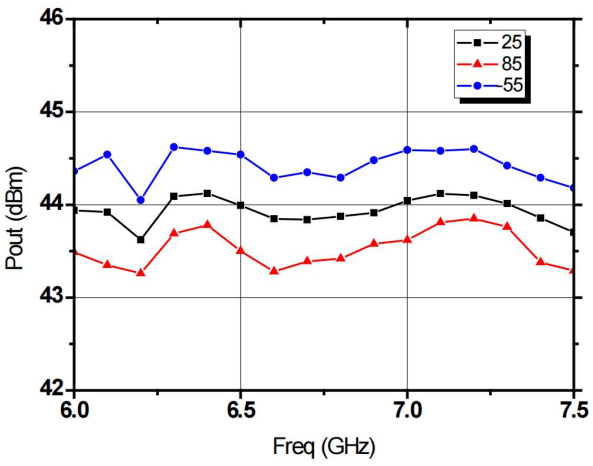
- Technology: 0.25um Power GaN HEMT
- Frequency: 6.0~7.5GHz
- Typical Pout : 43dBm(CW)
- Typical Gain: 10dB
- Typical PAE: 36%
- Bias: 28V/-2.2V
- Package: Metal Ceramic

## Electrical Specifications ($T_A$=25℃,$V_d$=28V,Id≈2A,F: 6.0~7.5GHz)

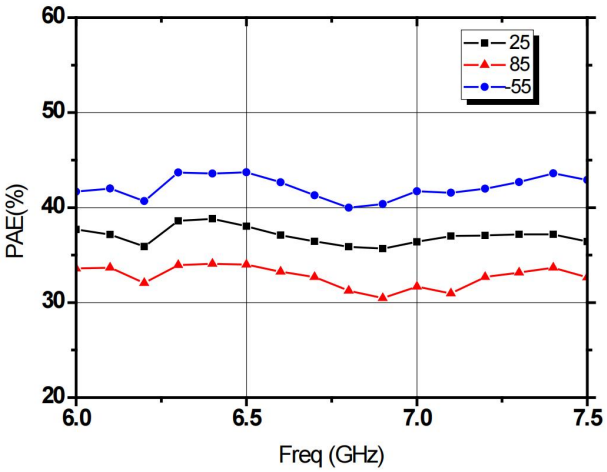
| Symbol | Parameter | Min | Typical | Max | Unit |
|---|---|---|---|---|---|
| Pout | Output Power | - | 46 | - | dBm |
| Gp | Power Gain | - | 10 | - | dB |
| ηadd | Power Added Efficiency | - | 36 | - | % |
| △Gp | Gain Flatness | -1.0 | - | +1.0 | dB |

## Test Curves

Pout&Freq. @ Different Temp.




PAE&Freq. @ Different Temp.

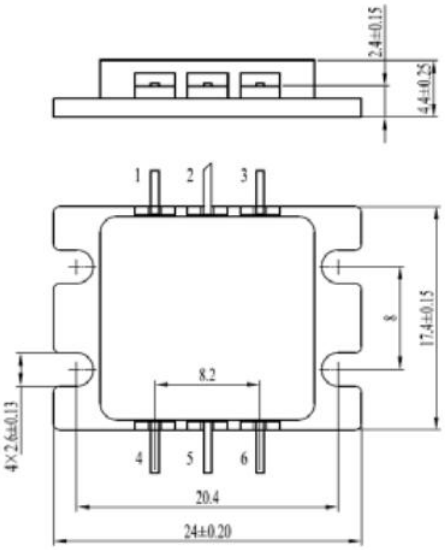



## Absolute Max Ratings ($T_A$=25℃)

| Symbol | Parameter | Value | Remark |
|---|---|---|---|
| Vd | Drain Voltage | 40V | |
| Vg | Grid Voltage | -5V | |
| Pd | DC Dissipation | 250W | 25℃ |
| Tch | Channel Temperature | 225℃ | 【1】 |
| Tm | Mounting Temperature | 300℃ | 1 min, $N_2$ Protection |
| Tstg | Storage Temperature | -55~175℃ | |

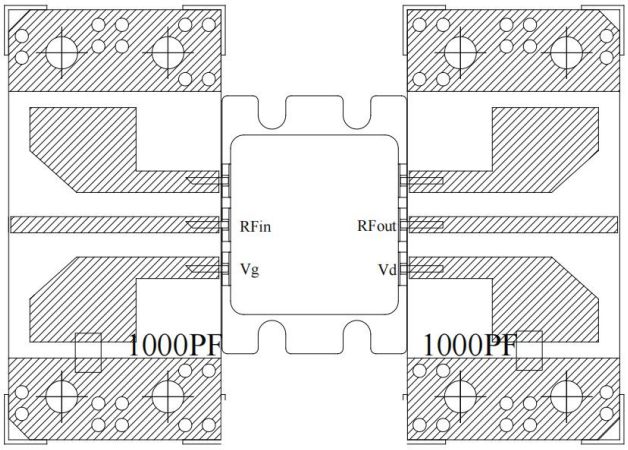
**【1】Exceeding any one or combination of these limits may cause permanent damage.**

| Outline Drawing | Dimension Symbols |
|---|---|




| No | Function | No | Function |
|---|---|---|---|
| 1、3 | Vg | 4、6 | Vd |
| 2 | RFin | 5 | RFout |

**Application Circuit**




**Note:**

(1) The typical packaging form is C164-2 shell package;

(2) Connect the circuit according to the diagram, pay attention to anti-static, and ensure good grounding and heat dissipation when using power devices;

(3) In order to ensure the good performance of the power module, the power filter and energy storage should be reasonably selected according to the modulation mode during pulse operation Capacitance value;