

### Performance

- Technology: 0.25um Power GaN HEMT
- Frequency: 5.3~5.9GHz
- Typical Pout : 48dBm
- Typical Gain: 11dB
- Typical PAE: 52%
- Bias: 28V/-2.4V@2A
- Package: Metal Ceramic

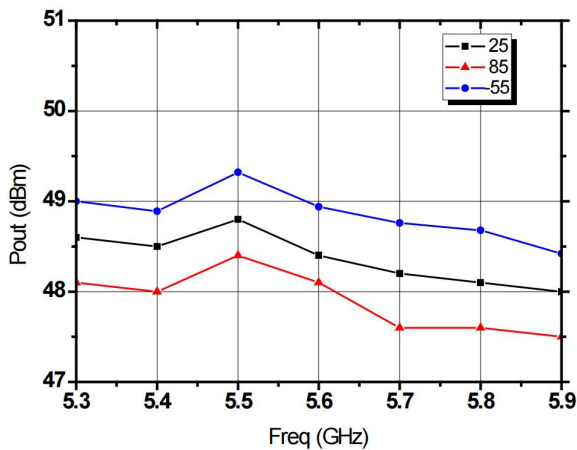


### Electrical Specifications (TA=25°C, Vd=28V, Vg=-2.4V, Id≈2A, F: 5.3~5.9GHz)

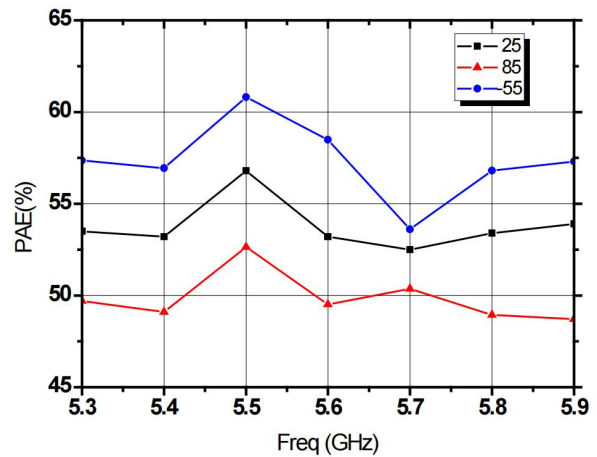
Symbol	Parameter	Min	Typical	Max	Unit
Pout	Output Power	-	48	-	dBm
Gp	Power Gain	-	11.5	-	dB
$\eta_{add}$	Power Added Efficiency	-	52	-	%
$\Delta Gp$	Gain Flatness	-0.8	-	+0.8	dB

### Test Curves

Pout&Freq. @ Different Temp.



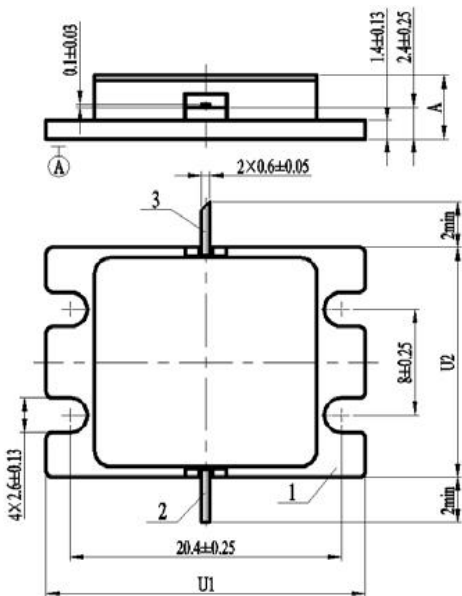
PAE&Freq. @ Different Temp.

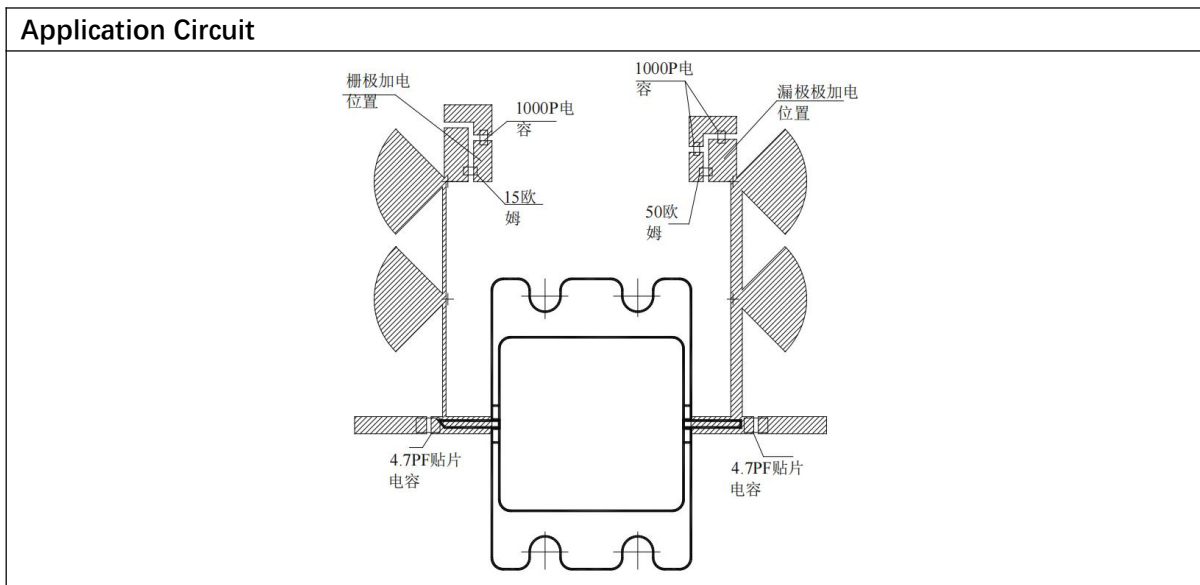


### Absolute Max Ratings (TA=25°C)

Symbol	Parameter	Value	Remark
Vd	Drain Voltage	40V	
Vg	Grid Voltage	-5V	
Tch	Channel Temperature	225°C	<b>[1]</b>
Tm	Mounting Temperature	300°C	1 min, N2 Protection
Tstg	Storage Temperature	-55~175°C	

**[1]** Exceeding any one or combination of these limits may cause permanent damage.

Outline Drawing	Dimension Symbols														
	<table border="1"> <thead> <tr> <th rowspan="2">Symbol</th> <th colspan="2">Value (unit: mm)</th> </tr> <tr> <th>Min.</th> <th>Max.</th> </tr> </thead> <tbody> <tr> <td>U1</td> <td>23.80</td> <td>24.20</td> </tr> <tr> <td>U2</td> <td>17.20</td> <td>17.60</td> </tr> <tr> <td>A</td> <td>-</td> <td>5.2</td> </tr> </tbody> </table>	Symbol	Value (unit: mm)		Min.	Max.	U1	23.80	24.20	U2	17.20	17.60	A	-	5.2
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	Min.	Max.													
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U2	17.20	17.60													
A	-	5.2													



**Note:**

- (1) This product is an internal matching tube, with input and output impedance values of 50 ohms;
- (2) The power-on sequence shall be in strict accordance with the sequence of applying negative power first and then positive power. When power-off, the leakage voltage shall be reduced first and then the grid voltage shall be reduced;
- (3) This product is a high-power device. Pay attention to heat dissipation during use. The higher the shell temperature is, the shorter the service life is. The service temperature should not be higher than 80 °C;
- (4) This product is an electrostatic sensitive device. It needs to pay attention to electrostatic protection during storage and use, and it needs to be grounded well during use.