

Performance

- Technology: 0.25um Power HEMT
- Frequency: 5.0~6.0GHz
- Typical Pout : 52dBm
- Typical Gain: 10dB
- Typical PAE: 50%
- Bias: 32V/-3~-2V
- Package: Metal Ceramic

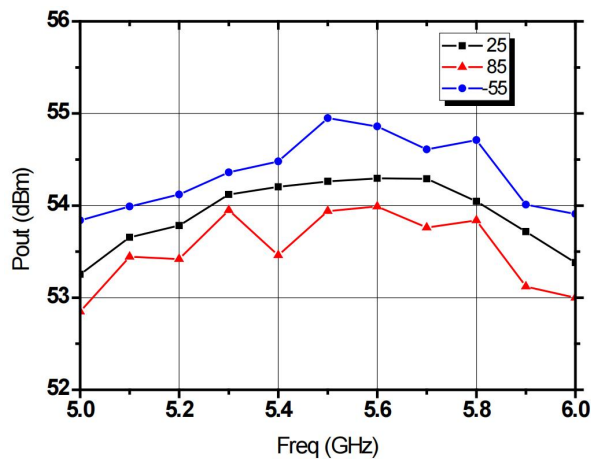


Electrical Specifications (TA=25°C, Vd=32V, Vg=-3~-2V, F: 5~6GHz, D.C=30%, PL=1ms)

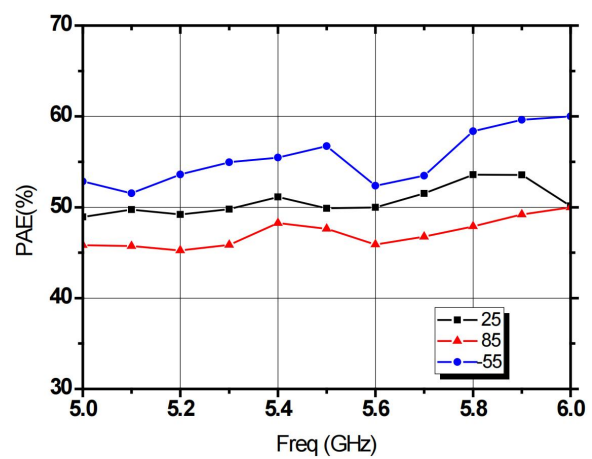
Symbol	Parameter	Min	Typical	Max	Unit
Pout	Output Power	-	52	-	dBm
Gp	Power Gain	-	10	-	dB
η_{add}	Power Added Efficiency	-	50	-	%
ΔGp	Gain Flatness	-0.8	-	+0.8	dB

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	[1]
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														
The drawing consists of two views: a top view (labeled A) and a side view (labeled B). The top view shows a central square pad with rounded corners, surrounded by a rectangular frame. The frame has four protruding fingers, each with a width of 2.6 ± 0.13 mm. The total width of the frame is 20.4 ± 0.25 mm, and the total height is $U2$. The distance between the fingers is $2 \times 0.6 \pm 0.05$ mm. The side view shows the profile of the transistor, with a total height of A mm. The top surface has a thickness of 0.1 ± 0.03 mm. The side view also shows the dimensions of the top surface: 1.4 ± 0.13 mm and 2.4 ± 0.25 mm. The bottom surface has a thickness of 2 mm. The side view also shows the dimensions of the top surface: 1.4 ± 0.13 mm and 2.4 ± 0.25 mm. The side view also shows the dimensions of the top surface: 1.4 ± 0.13 mm and 2.4 ± 0.25 mm.	<table><tr><th rowspan="2">Symbol</th><th colspan="2">Value (unit: mm)</th></tr><tr><th>Min.</th><th>Max.</th></tr><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></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.													
U1	23.80	24.20													
U2	17.20	17.60													
A	-	5.2													

Application Circuit

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.