

Performance

- Technology: 0.25um Power GaN HEMT
- Frequency: 11.2~11.8GHz
- Typical Pout : 53dBm
- Typical Gain: 7dB
- Typical PAE: 33%
- Bias: 32V/2.4A/-2~-3V
- Package: Metal Ceramic

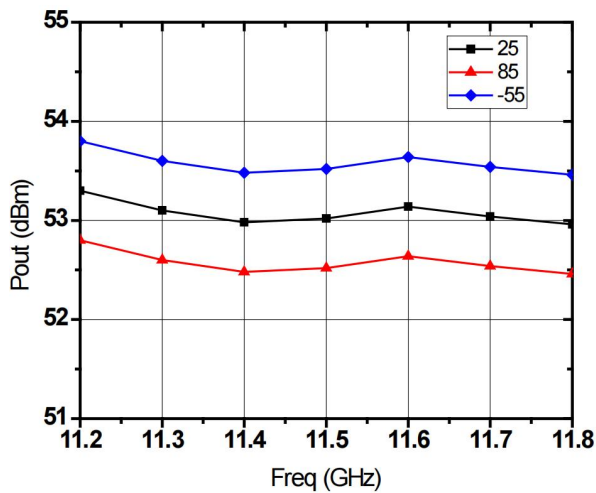


Electrical Specifications ($T_A=25^{\circ}\text{C}$, $V_d=32\text{V}$, $I_d=2.4\text{A}$, $PL=100\mu\text{s}$, $D.C=10\%$, $F: 11.2\sim 11.8\text{GHz}$)

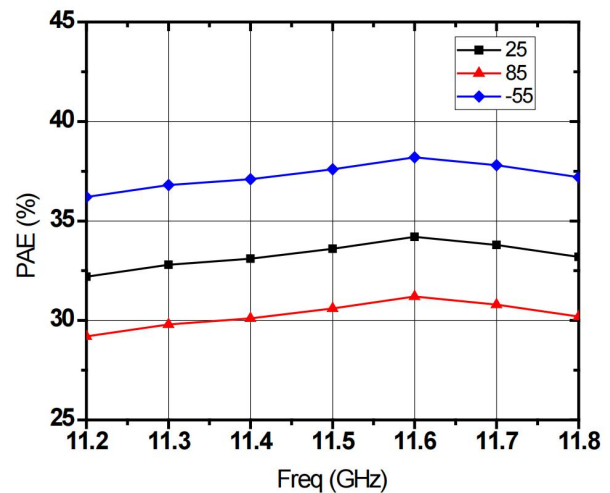
Symbol	Parameter	Min	Typical	Max	Unit
Pout	Output Power	-	53	-	dBm
Gp	Power Gain	-	7	-	dB
η_{add}	Power Added Efficiency	-	33	-	%
ΔG_p	Gain Flatness	-0.8	-	+0.8	dB

Test Curves

Pout&Freq. @ Different Temp.



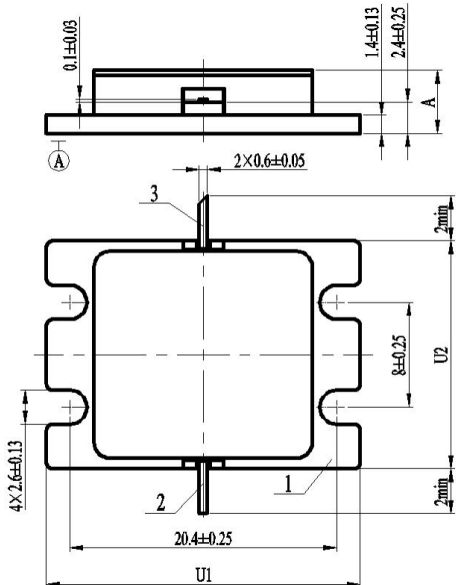
PAE&Freq. @ Different Temp.



Absolute Max Ratings (T_A=25°C)

Symbol	Parameter	Value	Remark
V _d	Drain Voltage	40V	
V _g	Grid Voltage	-5V	
P _d	DC Dissipation	400W	25°C
T _{ch}	Channel Temperature	225°C	【1】
T _m	Mounting Temperature	300°C	1 min, N ₂ Protection
T _{stg}	Storage Temperature	-55~175°C	

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

Outline Drawing	Dimension Symbol														
 Technical drawing of a GaN Transistor showing top and side views with dimensions. Top View Dimensions: - Overall width: $U1$ - Overall height: $U2$ - Distance between mounting tabs: 20.4 ± 0.25 - Distance between mounting tabs (vertical): 8 ± 0.25 - Distance from mounting tab to edge: $4 \times 2.6 \pm 0.13$ - Mounting tab width: $2 \times 0.6 \pm 0.05$ - Mounting tab height: 2 min - Distance from mounting tab to edge (horizontal): 2 min Side View Dimensions: - Overall height: A - Distance from mounting tab to edge: 0.1 ± 0.03 - Distance from mounting tab to edge (vertical): 1.4 ± 0.13 - Distance from mounting tab to edge (horizontal): 2.4 ± 0.25	<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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Application Circuit	Recommended Value																												
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Note:

- (1) This product is an internal matching tube, and the input and output impedance values are both 50 ohms;
- (2) Please strictly follow the order of adding negative electricity first and then positive electricity in the power-on sequence. When de-energizing, first reduce the drain voltage and then reduce the gate voltage;
- (3) This product is a high-power device. It is necessary to pay attention to heat dissipation during use. The higher the case temperature, the shorter the service life. It is advisable to use the temperature not higher than 80 degrees;
- (4) This product is an electrostatic sensitive device. It is necessary to pay attention to electrostatic protection during storage and use, and it needs to be well grounded when using it.