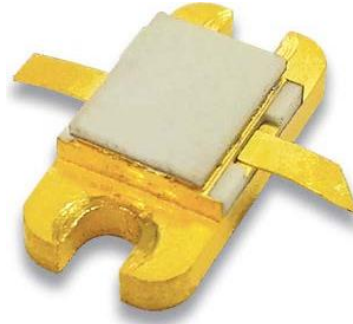


Performance

- Technology: 0.5um Power GaN HEMT
- Frequency: 0.01~0.05GHz
- Typical Pout: 47dBm
- Typical Gain: 17dB
- Typical PAE: 60%
- Bias: 28V/-2.5V
- Package: JY02F064 Metal Ceramic

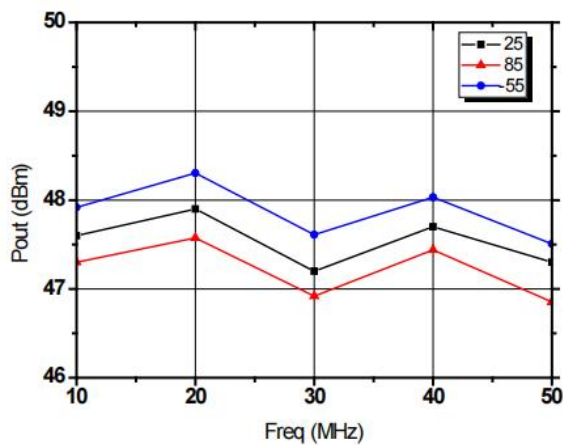


Electrical Specifications ($T_A=25^{\circ}\text{C}$, $V_d=28\text{V}$ (PL=200us, D.C=8%), $V_g=-3\text{V}$, F: 0.01~0.05GHz)

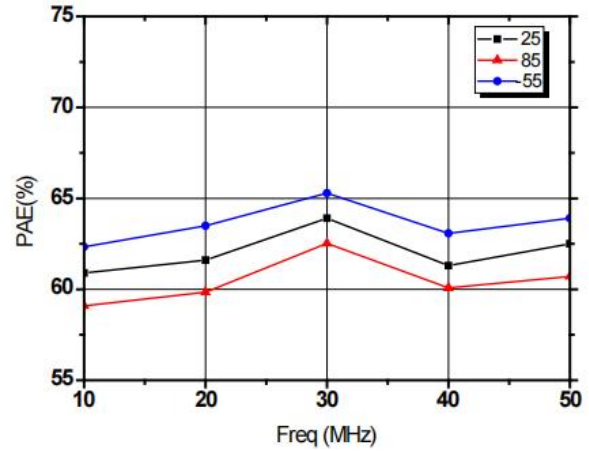
Symbol	Parameter	Min	Typical	Max	Unit
Pout	Output Power	-	47	-	dBm
Gp	Power Gain	-	17	-	dB
η_{add}	Power Added Efficiency	-	60	-	%

Test Curves

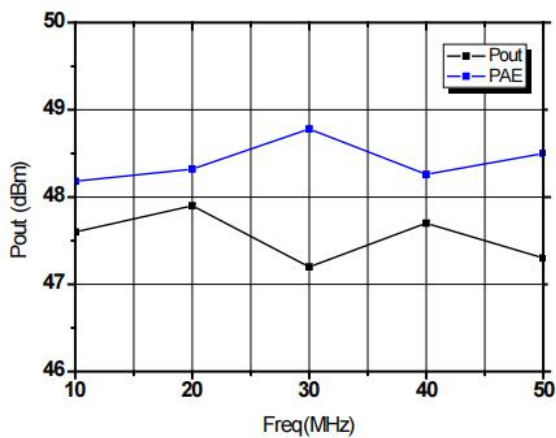
Pout&Freq. @ Different Temp.



PAE&Freq. @ Different Temp.



Pout、PAE&Freq.

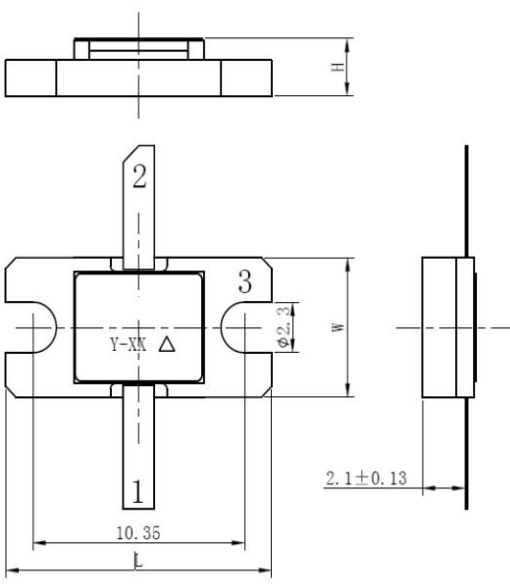


Absolute Max Ratings (TA=25°C)

Symbol	Parameter	Value	Remark
Vd	Drain Voltage	50V	
Vg	Grid Voltage	-5V	
Tch	Channel Temperature	225°C	【1】
Tm	Mounting Temperature	300°C	1 min, N2 Protection
Tstg	Storage Temperature	-55~150°C	
Tc	Operating Temperature	-55~85°C	

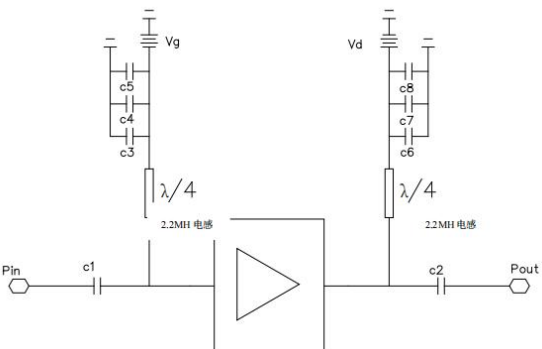
【1】 Exceeding any one or combination of these limits may cause permanent damage.

Outline Drawing	Dimension symbols
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Symbol	Value (unit: mm)		
	Min.	Typ.	Max.
W	6.15	6.35	6.55
L	12.75	13.00	13.25
H	3.08	3.38	3.58

Application Circuit	
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No	Value
C1、C2	100pF
C3、C6	100pF
C4、C7	1000pF
C5、C8	>10uF(electrolytic capacitor or tantalum capacitor)

Note:

- (1) This product is a pre-matched tube, and the input and output impedance values are 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.