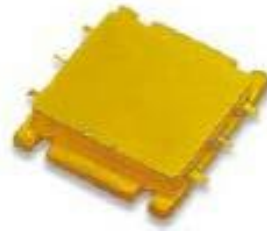


Performance

- Technology: 0.5um Power HEMT
- Frequency: 0.8~2.0GHz
- Typical Pout : 46dBm
- Typical Gain: 11dB
- Typical PAE: 50%
- Bias: 30V/-2.8V
- Package: Metal Ceramic

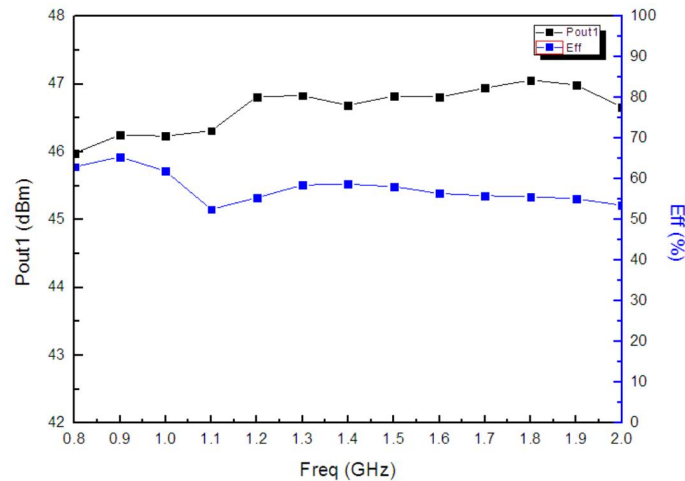


Electrical Specifications (TA=25°C,Vd=30V,Vg=-2.8V,F: 0.8~2.0GHz,CW,Interval=100MHz)

Symbol	Parameter	Min	Typical	Max	Unit
Pout	Output Power	-	46	-	dBm
Gp	Power Gain	-	11	-	dB
η_{add}	Power Added Efficiency	-	50	-	%
ΔGp	Gain Flatness	-0.8	-	+0.8	dB

Test Curves

Pout、Eff&Freq.



Absolute Max Ratings (TA=25°C)

Symbol	Parameter	Value	Remark
Vd	Drain Voltage	36V	
Vg	Grid Voltage	-5V	
Tch	Channel Temperature	175°C	【1】
Tm	Mounting Temperature	300°C	1 min, N2 Protection
Tstg	Storage Temperature	-55~150°C	

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

Outline Drawing	Pad Definition																
The drawing shows a square package with rounded corners. The top view includes the following dimensions: overall width 27.40 ± 0.20, overall height 30.80 ± 0.20, pin pitch 4×2.60, pin 1 width $12 \times R0.50$, pin 2 width 15.00, pin 3 width 18.00, pin 4 width 2.00, and pin 5 width 3.00 ± 0.20. The side view shows a height of 1.51. The package has six pins labeled 1 through 6. The top view also shows the labels IN, OUT, V_G, and V_D near the pins.	<table><tr><th>No</th><th>Function</th><th>No</th><th>Function</th></tr><tr><td>3</td><td>Vg</td><td>6</td><td>Vd</td></tr><tr><td>2</td><td>RFin</td><td>5</td><td>RFout</td></tr><tr><td>1</td><td>No function, floating</td><td>4</td><td>No function, floating</td></tr></table>	No	Function	No	Function	3	Vg	6	Vd	2	RFin	5	RFout	1	No function, floating	4	No function, floating
No	Function	No	Function														
3	Vg	6	Vd														
2	RFin	5	RFout														
1	No function, floating	4	No function, floating														

Application Circuit

Symbol	Value
C1	100pF
C2	1000pF
C3	47uF
C4	100pF
C5	1000pF
C6	100uF
C7	20pF

Note:

- (1) The typical package is JF06F016 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 capacitance of the power filter and energy storage capacitor should be reasonably selected according to the modulation mode during pulse operation.