

Performance

- Technology: 0.35um Power HEMT
- Frequency: 8~12GHz
- Typical Pout : 46dBm
- Typical Gain: 17dB
- Typical PAE: 20%
- Bias: 28V/-1.7V
- Package: Metal Ceramic

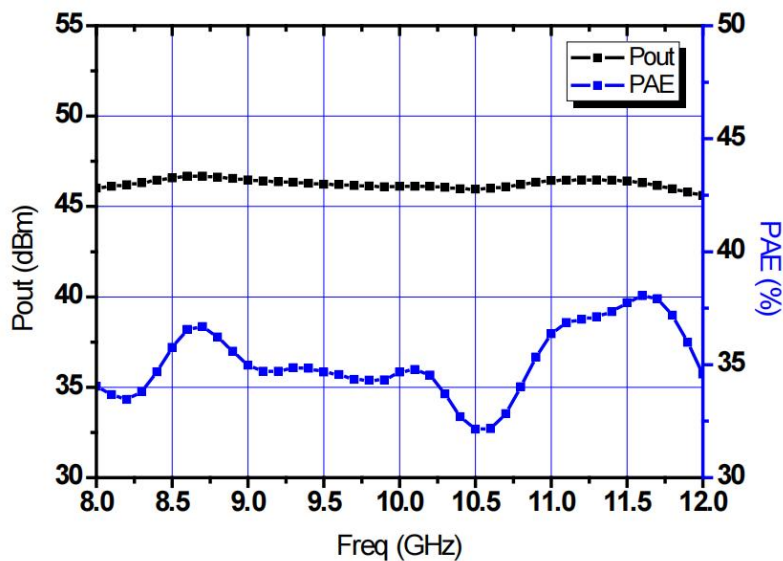


Electrical Specifications (TA=25°C, Vd=28V, Vg=a point between -1.5~-2.5V, F: 8~12GHz)

Symbol	Parameter	Min	Typical	Max	Unit
Pout	Output Power	-	46	-	dBm
Gp	Power Gain	-	17	-	dB
G	Small Signal Gain	-	25	-	dB
η_{add}	Power Added Efficiency	-	20	-	%

Test Curves

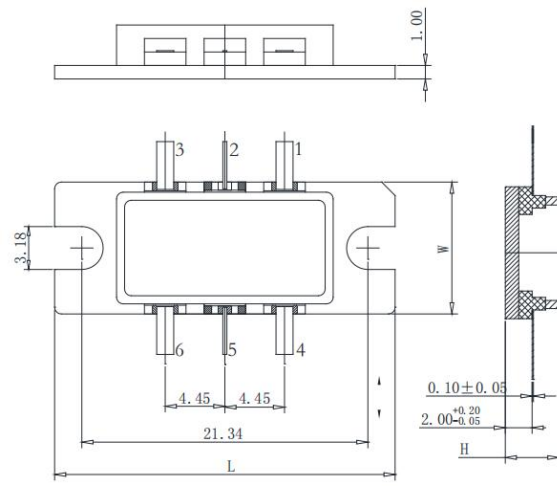
Pout&PAE @ Different Temp.

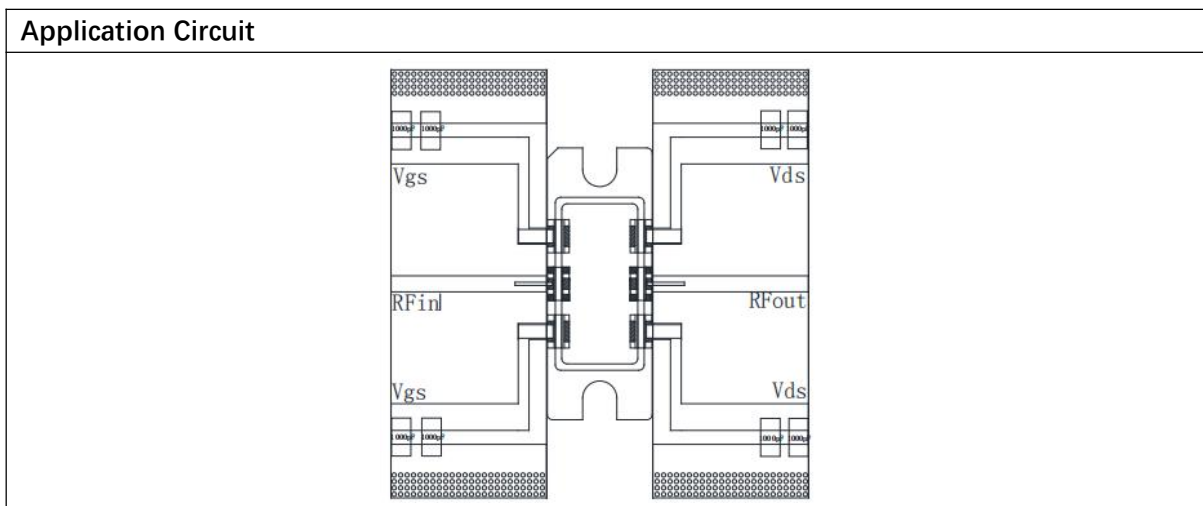


Absolute Max Ratings (TA=25°C)

Symbol	Parameter	Value	Remark
Vd	Drain Voltage	40V	
Pd	DC Dissipation	220W	
Pin	Input Power	32dBm	
Tch	Channel Temperature	175°C	【1】
Tstg	Storage Temperature	-55~150°C	

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

Outline Drawing	Dimension Symbol																			
 The drawing includes a top view with dimensions: 3.18, 1.00, 21.34, 4.45, 4.45, 0.10±0.05, 2.00^{+0.20}/_{-0.05}, and L. It also shows a side view with dimension W and a cross-sectional view with dimension H.	<table><tr><th rowspan="2">Symbol</th><th colspan="3">Value (unit: mm)</th></tr><tr><th>Min.</th><th>Typ.</th><th>Max.</th></tr><tr><td>H</td><td>-</td><td>-</td><td>4.50</td></tr><tr><td>L</td><td>25.27</td><td>25.4</td><td>25.53</td></tr><tr><td>W</td><td>9.65</td><td>9.78</td><td>9.91</td></tr></table>	Symbol	Value (unit: mm)			Min.	Typ.	Max.	H	-	-	4.50	L	25.27	25.4	25.53	W	9.65	9.78	9.91
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	Min.	Typ.	Max.																	
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L	25.27	25.4	25.53																	
W	9.65	9.78	9.91																	



Note:

- (1) The typical packaging form is JF06F035 tube shell packaging;
- (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 good performance of the power module, the power filter and energy storage capacitor should be reasonably selected according to the modulation mode during pulse operation Capacity value