

Performance

- Technology: 0.25um Power HEMT
- Frequency: 2.0~4.0GHz
- Typical Pout : 50W(CW)
- Typical Gain: 10dB
- Typical PAE: 45%
- Bias: 28V/-2.5V
- Package: Metal Ceramic

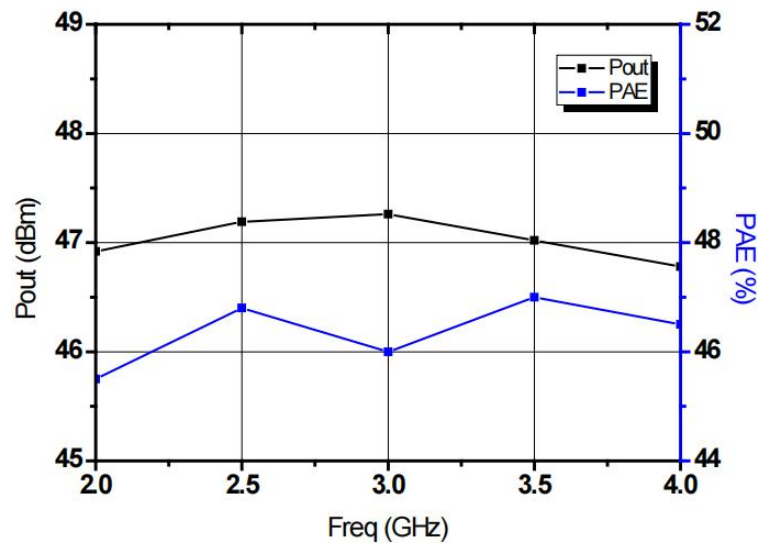


Electrical Specifications (TA=25°C, Vd=28V, Vg=-2.5V, F: 2.0~4.0GHz)

Symbol	Parameter	Min	Typical	Max	Unit
Pout	Output Power	-	50	-	W
Gp	Power Gain	-	10	-	dB
η_{add}	Power Added Efficiency	-	45	-	%
ΔGp	Gain Flatness	-0.5	-	+0.5	dB

Test Curves

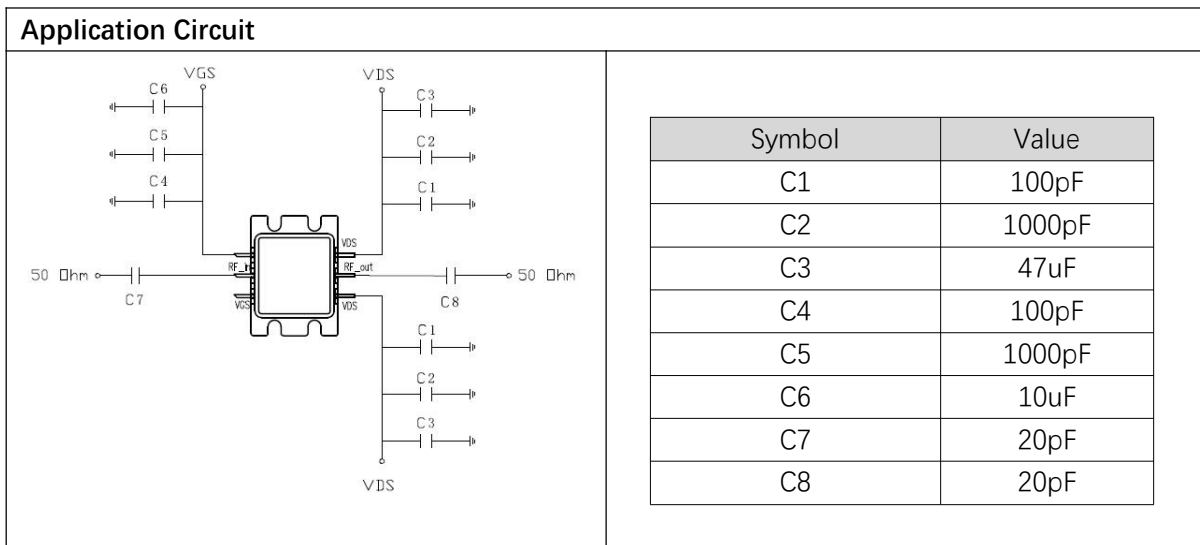
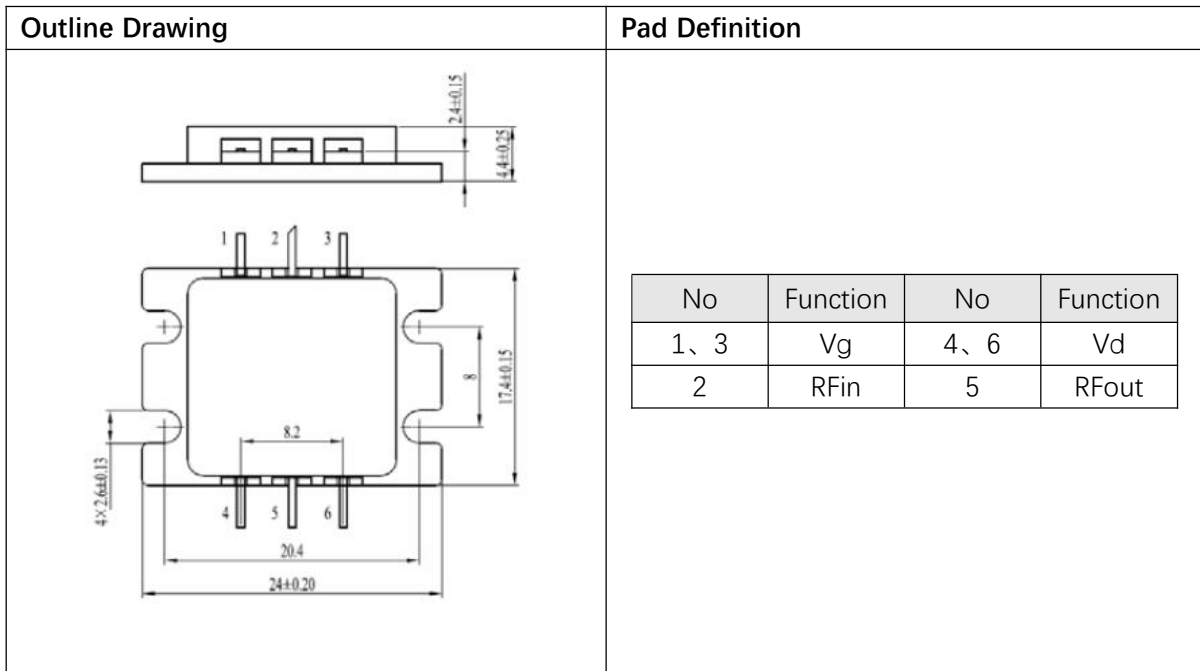
Pout、PAE&Freq.



Absolute Max Ratings (TA=25°C)

Symbol	Parameter	Value	Remark
Vd	Drain Voltage	40V	
Vg	Grid Voltage	-5V	
Pd	DC Dissipation	125W	25°C
Tch	Channel Temperature	175°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.



Note:

- (1) The typical packaging form is C164-2 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 capacitance values of the power filter and energy storage capacitor should be reasonably selected according to the modulation method during pulse operation;
- (4) Power module power-up sequence: VGS, VDS;
- (5) Power module power-off sequence: VDS, VGS.