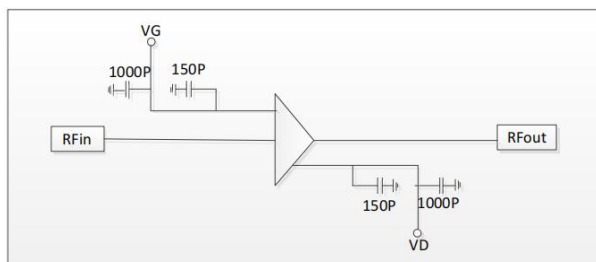


Performance

- Frequency: 2~18GHz
- Typical Signal Gain: 22dB
- Typical Pout: 40dBm@28V
- Typical PAE: 18%
- Bias: 28V, -2V(Typ.)
- Size: 18.03*8.7mm*2.5mm

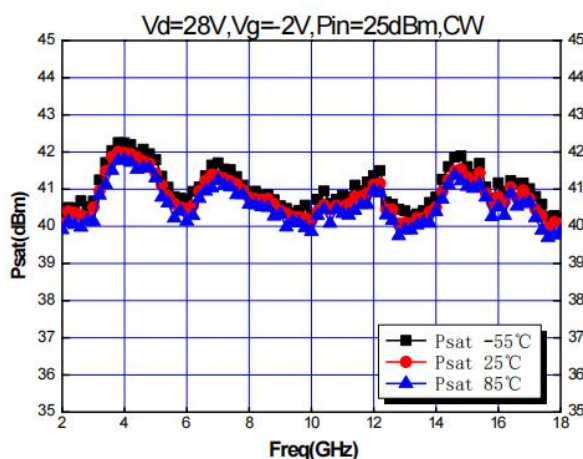


Electrical Specifications (TA=25°C, Vd=28V, Vg= -2V, F: 2~18GHz, CW)

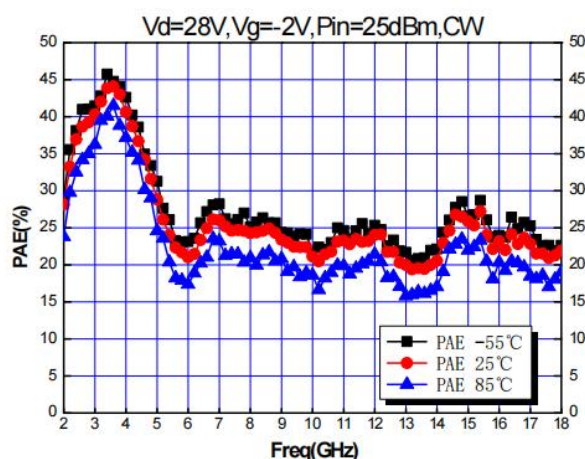
Symbol	Parameter	Min	Typical	Max	Unit
G	Small Signal Gain	-	22	-	dB
Gp	Power Gain (Pin=25dBm)	-	15	-	dB
Pout	Saturated Power (Pin=25dBm)	-	40	-	dBm
PAE	Power Added Efficiency (Pin=25dBm)	-	18	-	%

Test Curves

Pout@ Different Temp



PAE@ Different Temp

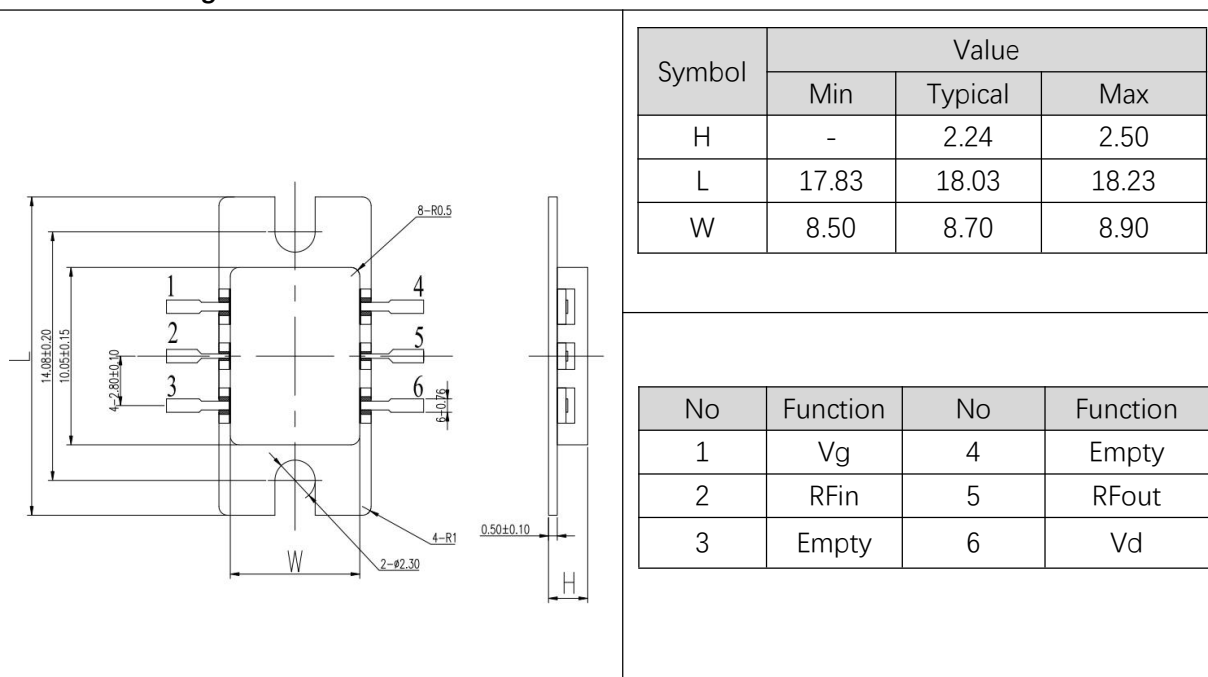


Absolute Max Ratings (TA=25°C)

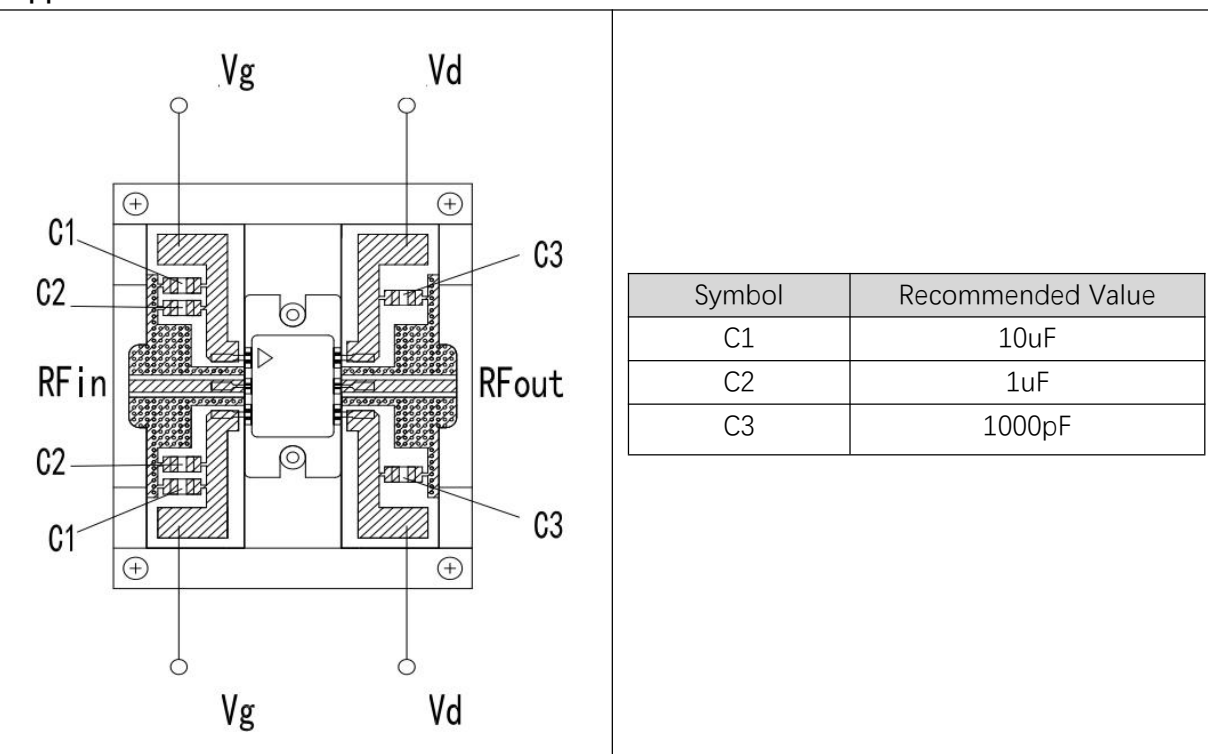
Symbol	Parameter	Value	Remark
Vd	Drain Voltage	32V	
Vg	Grid Voltage	-5V	
Ig	Gate Current	100mA	
Pin	Input Power	30dBm	
VSWRout	Output VSWR	5:1	
TA	Operating Temperature	220°C	
Tstg	Storage Temperature	-55~125°C	
ESD Level	Electro-static discharge Level	Class A	

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

Outline Drawing



Application Circuit



Note:

1. In the use of the product, the RF input and output terminals need to adopt the transmission line structure as shown in the figure;
2. During power-on, the voltage should meet the working voltage recommended in the manual;
3. When the module is in continuous wave mode, please install a μ -level filter capacitor at the Vd port according to the peripheral power supply diagram;
4. If the module feed circuit needs to use a voltage regulator for voltage conversion, please ensure that the overcurrent capability of the selected voltage regulator is greater than the recommended working current of the module;
5. Pay attention to the sequence of negative electricity first and then positive electricity during power-on;
6. Pay attention to the current limiting protection in use;
7. Pay attention to good grounding when using;
8. Effective anti-static measures should be taken during use, storage and transportation;
9. The working temperature should be strictly controlled within the temperature range recommended by the manual;
10. If there is a problem with the product, it should be sent back to the original manufacturer for repair, and it is not allowed to open the cover by yourself.