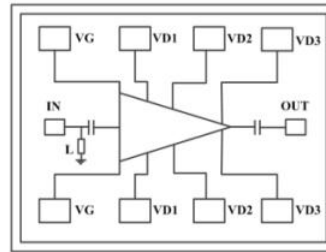


### Performance

- Frequency: 7~11GHz
- Typical Signal Gain: 27dB
- Typical Pout: 47dBm@28V
- Typical PAE: 48%
- Typical Static Current: 2.8A
- Bias: 28V, -1.8V (Typ.)
- Size: 3.5\*5.3mm\*0.08mm

### Function Diagram

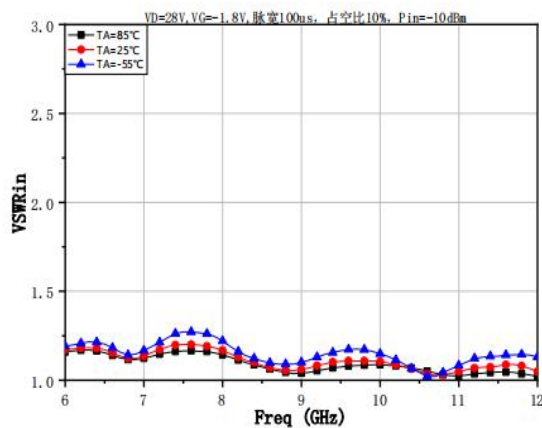


### Electrical Specifications (TA=25°C, Vd=28V, Vg=-1.8V, Idq=2.8A, F: 7~11GHz, PL=100us, D.C=10%)

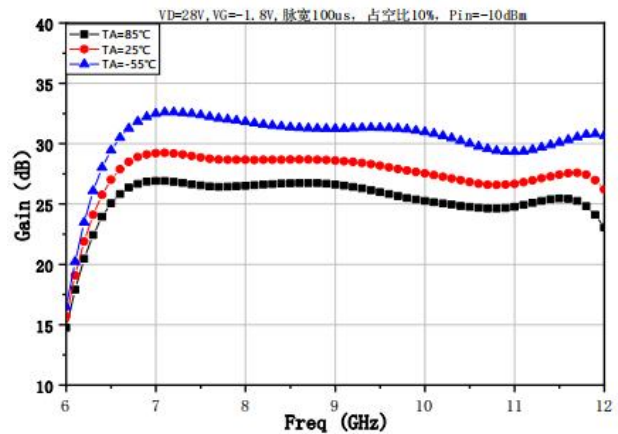
Symbol	Parameter	Min	Typical	Max	Unit
G	Small Signal Gain	-	27	-	dB
Gp	Power Gain	-	19	-	dB
Pout	Saturated Power	-	47	-	dBm
PAE	Power Added Efficiency	-	48	-	%

### Test Curves

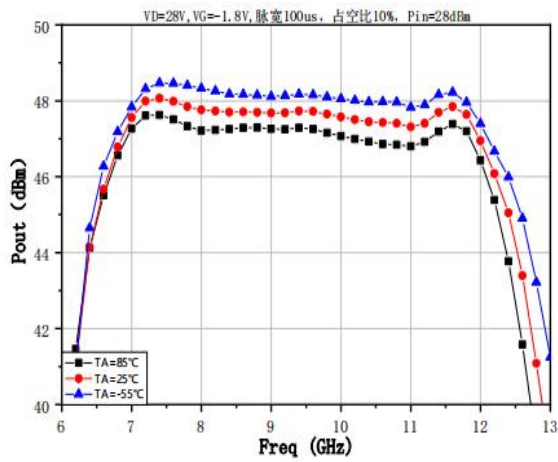
VSWRin@ Different Temp



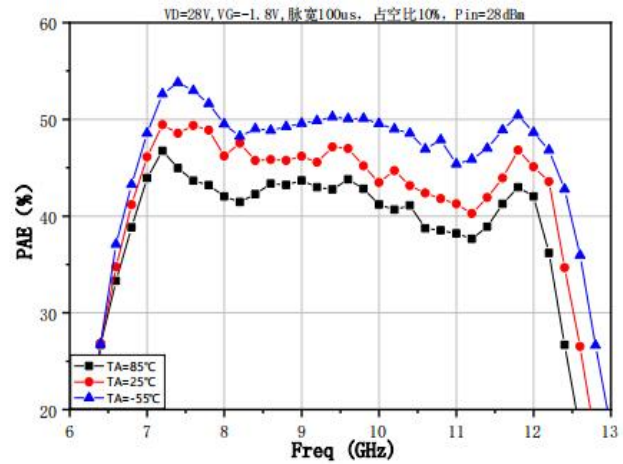
Small Signal Gain@ Different Temp



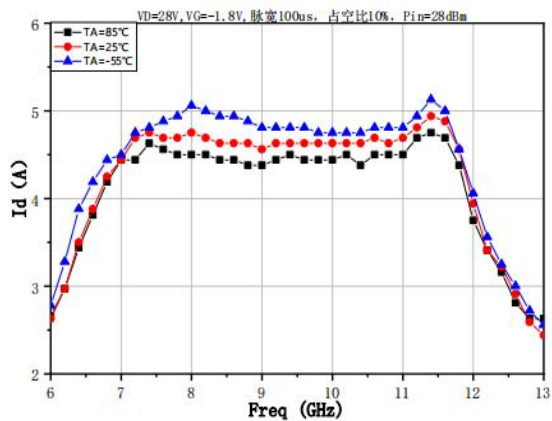
Pout@ Different Temp



PAE@ Different Temp



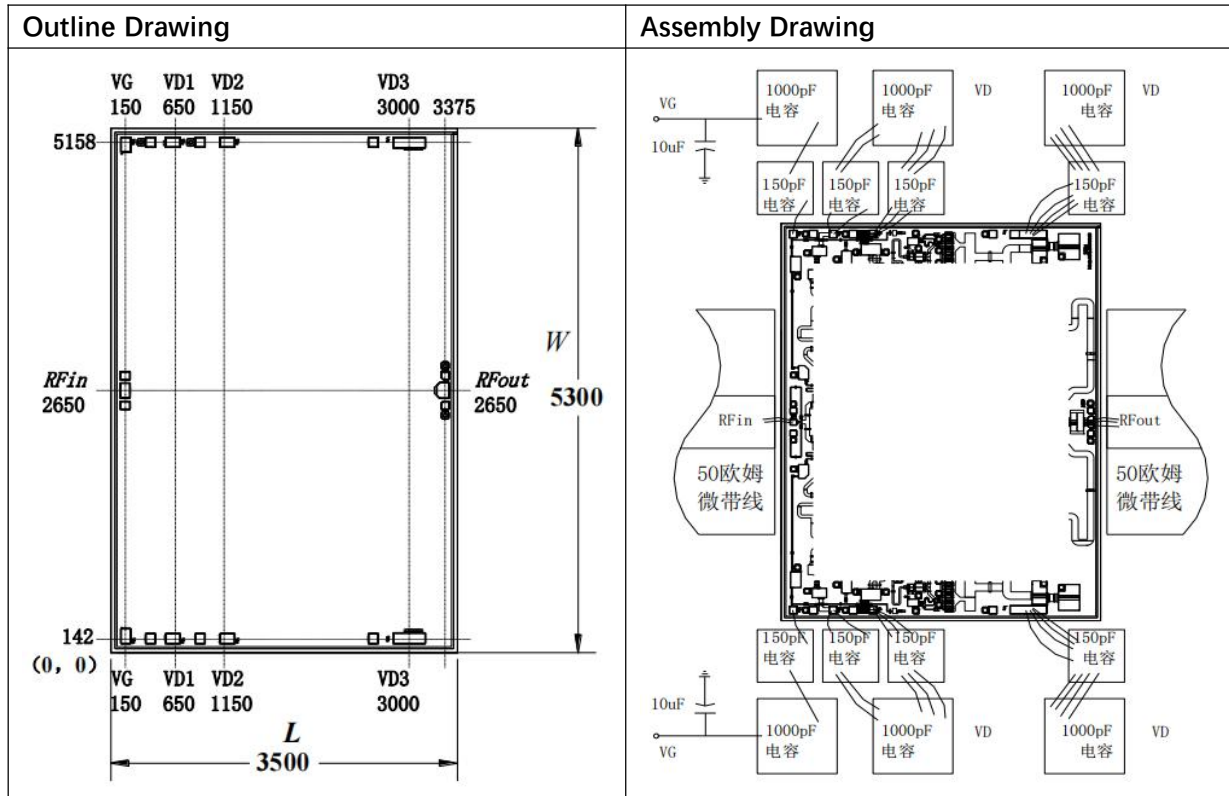
Id@ Different Temp



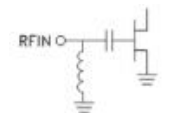
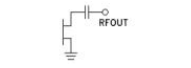
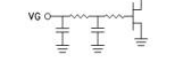
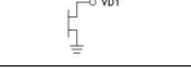
### Absolute Max Ratings (TA=25°C)

Symbol	Parameter	Value	Remark
Vd	Drain Voltage	32V	
Vg	Grid Voltage	-5V	
Pd	DC Power	130W	25°C
Tch	Channel Temperature	225°C	
Tm	Mounting Temperature	300°C	1 min, N2 Protection
Tstg	Storage Temperature	-55~175°C	
Tc	Operating Temperature	-55~85°C	

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



### Pads Definition

Pad	Description	Equivalent Circuit
RFIn	RF Signal input, connect to 50ohm system, no need block capacitor.	
RFout	RF Signal output, connect to 50ohm system, no need block capacitor.	
VG	Amp gate bias, external 150pF, 1000pF capacitor is needed	
VD1、VD2、VD3	Amp drain bias, external 150pF, 1000pF capacitor is needed	
GND	Bottom must connect to RF and DC ground	