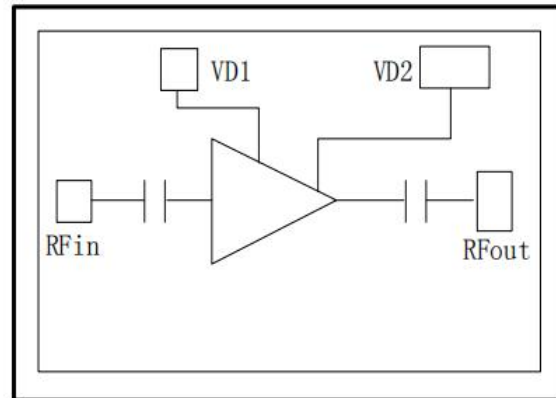


Performance

- Frequency: 5~6.5GHz
- Typical Signal Gain: 30.5dB
- Typical Pout: 30.7dBm@28V
- Typical PAE: 39%
- VSWR: 1.6
- Power Gain: 24.7
- Static Current: 0.1A
- Dynamic Current: 0.112A
- Bias: 28V (Typ.)
- Mode: CW/PL
- Size: 1.8*1.3mm*0.08mm

Function Diagram

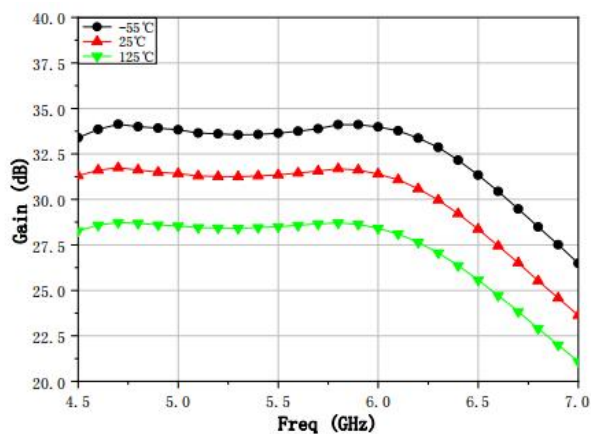


Electrical Specifications (TA=25°C, Vd=28V, Idq=0.1A, F: 5~6.5GHz)

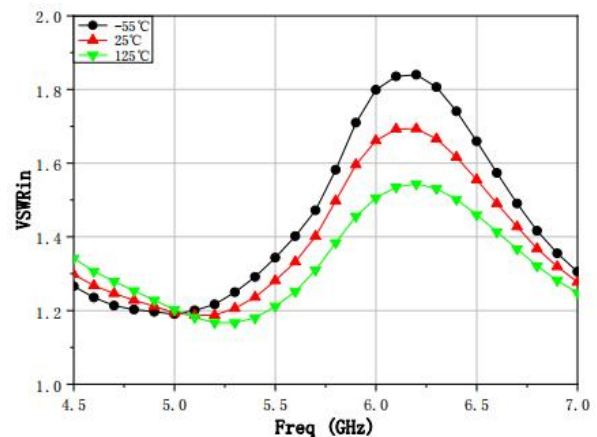
Symbol	Parameter	Min	Typical	Max	Unit
G	Small Signal Gain	28.5	30.5	31.5	dB
Gp	Power Gain	24.6	24.7	25	dB
Pout	Saturated Power	30.6	30.7	31	dBm
PAE	Power Added Efficiency	38	39	40	%
Id	Dynamic Current	0.1	0.112	0.115	A
Rth	Thermal Resistance	-	20	-	°C/W

Test Curves

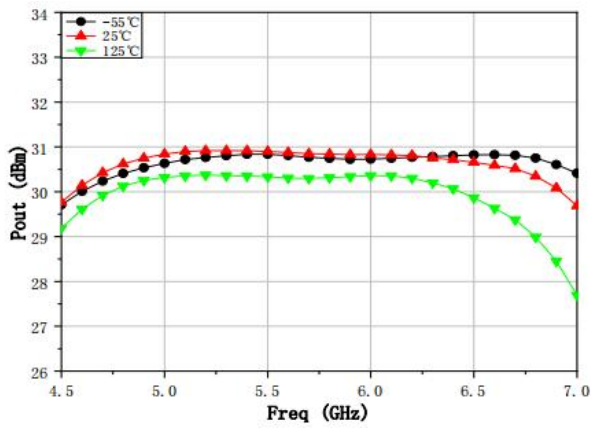
Small Signal Gain@ Different Temp



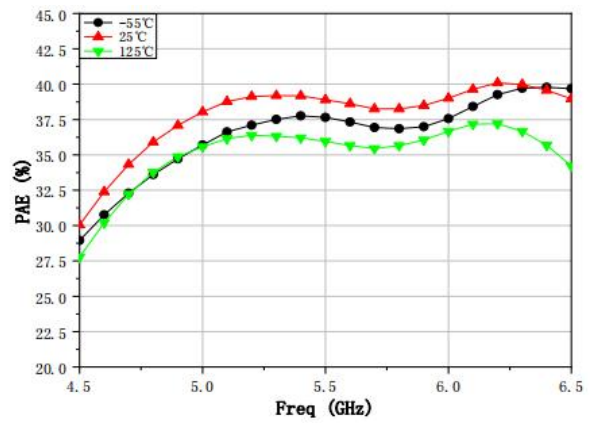
VSWRin@ Different Temp



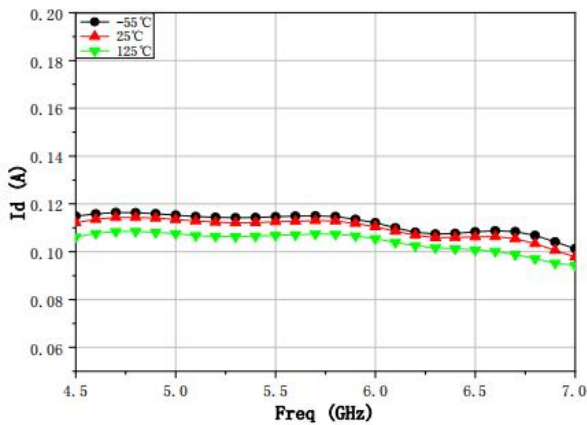
Pout@ Different Temp.



PAE@ Different Temp.



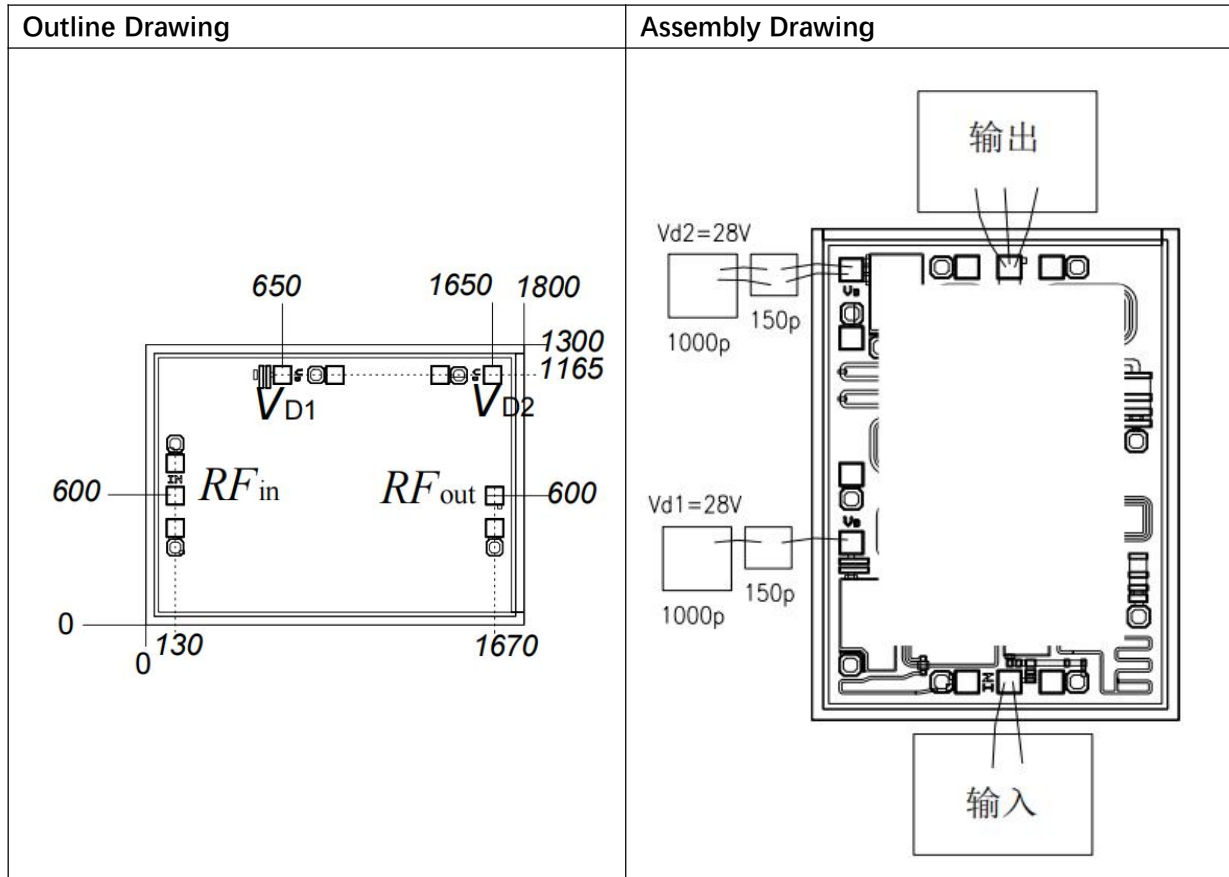
Id@ Different Temp.



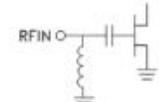


Absolute Max Ratings (TA=25°C)

Symbol	Parameter	Value	Remark
Vd	Drain Voltage	32V	
Id	Drain Current	0.8A	
Vg	Gage Voltage	-10V	
Ig	Gate Current	10mA	
Pd	DC Power	15W	
Pin	Input Power	25dBm	
Tch	Channel Temperature	225°C	
Tm	Mounting Temperature	310°C	1 min, N2 Protection
Tstg	Storage Temperature	-55~175°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.	
VD、VD1	Amp drain bias, external 150pF, 1000pF capacitor is needed	
GND	Bottom must connect to RF and DC ground	