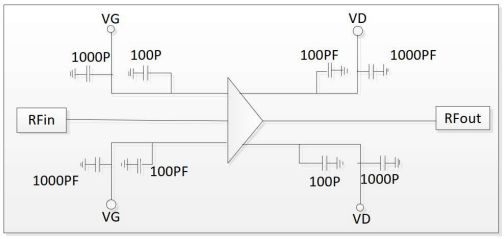
Performance

- Frequency: 13~15.5GHz
- Typical Small Signal Gain: 23dB
- Typical Psat: 45dBm@28V
- Typical PAE: 33%
- Bias: 28V, -2.4V (Typ.)
- Size: 15.25*15.25mm*3.5mm

Function Diagram

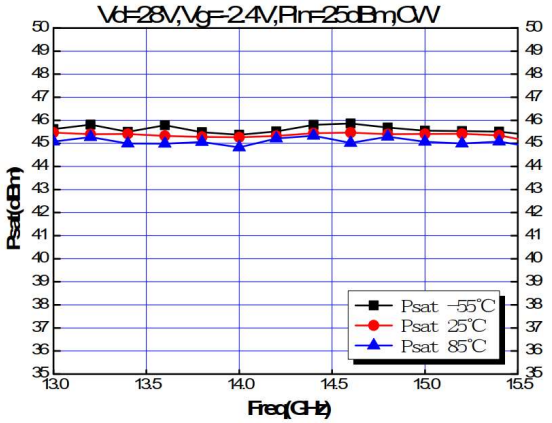


Electrical Specifications (V_d=28V, V_g=-2.4V, F: 13-15.5GHz)

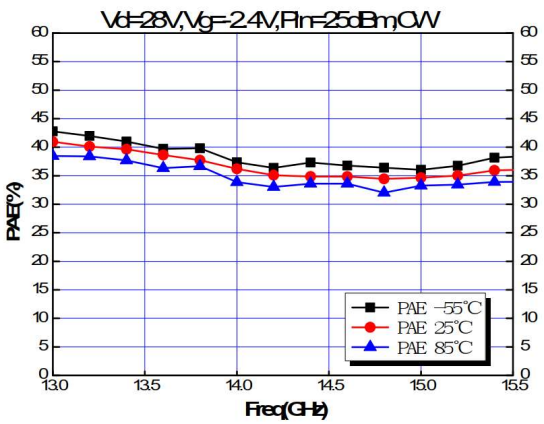
Symbol	Parameter	Min	Typical	Max	Unit
G	Small Signal Gain	-	23	-	dB
Gp	Power Gain (Pin=25dBm)	-	20	-	dB
Pout	Saturated Power (Pin=25dBm)	-	45	-	dBm
PAE	Power Added Efficiency (Pin=25dBm)	-	33		%

Test Curves

Pout @ Different Temperature



PAE @ Different Temperature

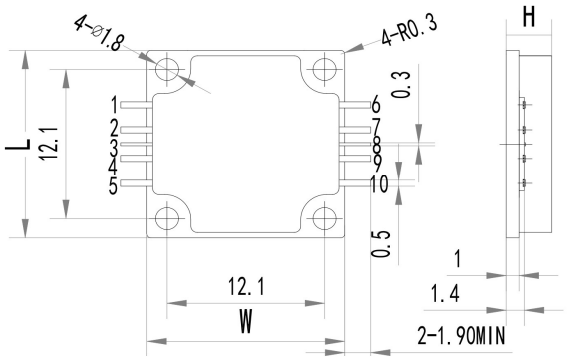


Absolute Max Ratings (T_A=25℃)

Symbol	Parameter	Value	Remark
Vd	Drain Voltage	34V	
Vg	Gate Voltage	-10V	
Ig	Gate Current	50mA	
Pin	Input Power	30dBm	
$VSWR_{out}$	Output VSWR	5:1	
Tch	Channel Temperature	200℃	
Tstg	Storage Temperature	-55~125℃	
ESD Level	Electro-static discharge Level	Class A	

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

Outline Drawing



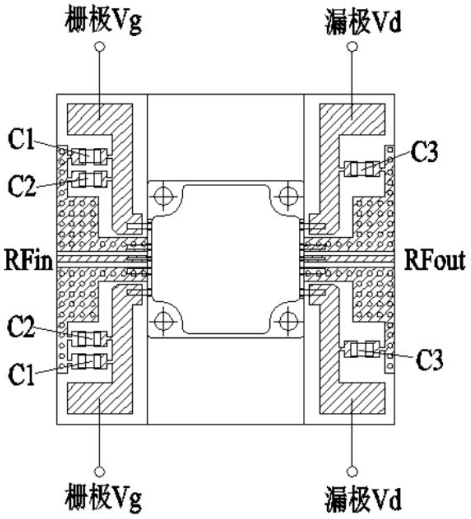
Unit: mm

Symbol	Value		
	Min	Typical	Max
H	3.3	3.50	3.7
L	15.1	15.25	15.4
W	15.1	15.25	15.4

PIN Description

Pin No	Function	Pin No	Function
1	Vg	6	Vd
2	GND	7	GND
3	RFin	8	RFout
4	GND	9	GND
5	Vg	10	Vd

Application Circuits



No	Recommend capacitance
C1	10uF
C2	1uF
C3	1000pF