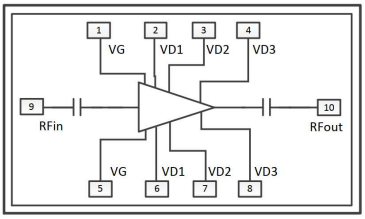
Performance

- Frequency: 43-46GHz
- Typical Small Signal Gain: 18dB
  Typical Output Power: 39dBm@20V (CW)
- Typical PAE: 21%
- Bias: Vd=20V, Id= 1.1A
- Size: 2.8*3.0mm*0.05mm

Function Diagram

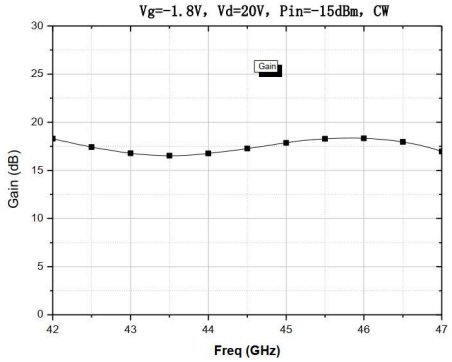


Electrical Specifications (V_d=20~24V, V_g=-1.6~2.2V, F: 43-46GHz, CW)

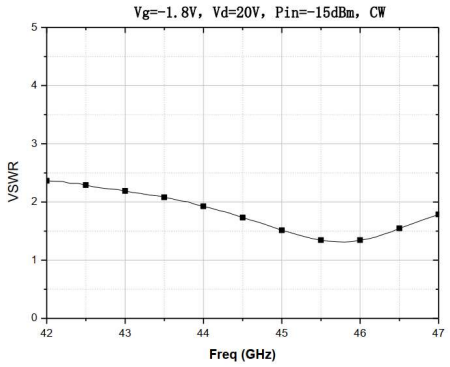
Symbol	Parameter	Min	Typical	Max	Unit
G	Small Signal Gain	-	18	-	dB
Gp	Power Gain	-	9	-	dB
Pout	Saturated Power	-	39	-	dBm
PAE	Power Added Efficiency	-	21	-	%

Test Curves

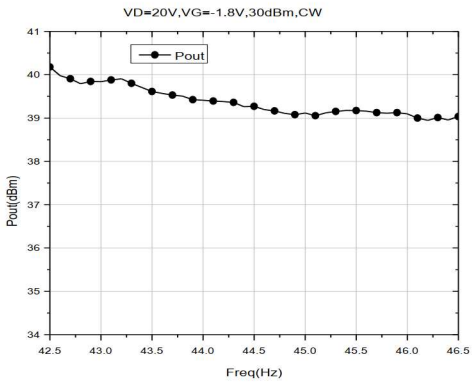
Small Signal Gain vs. Freq



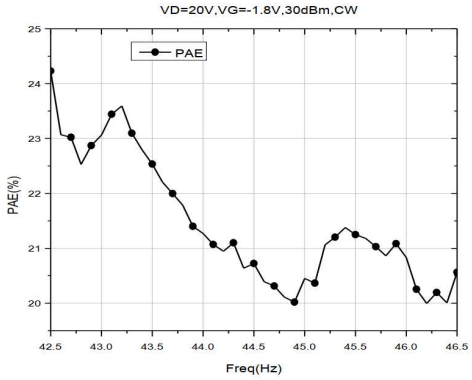
Input VSWR vs. Freq



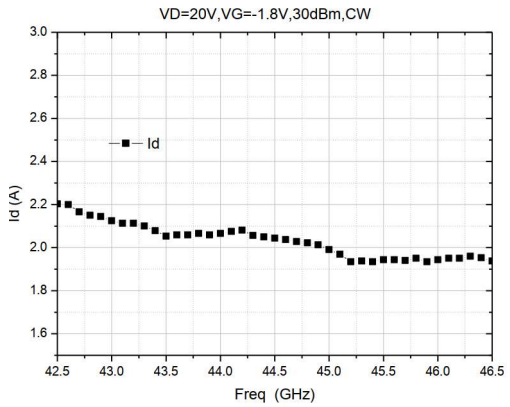
Output Power vs. Freq



PAE vs. Freq



Drain Current vs. Freq

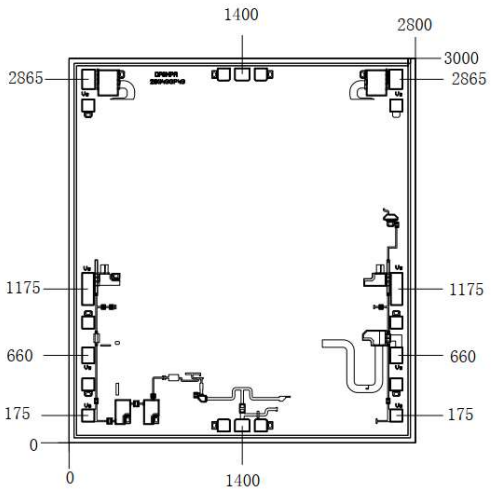


Absolute Max Ratings (T_A=25℃)

Symbol	Parameter	Value	Remark
Vd	Drain Voltage	28 V	
Id	Drain Current	5.0 A	
Vg	Gate Voltage	-10 V	
Ig	Gate Current	10 mA	
Pd	DC Power	100 W	
Pin	Input Power	30 dBm	
Tch	Channel Temperature	225℃	
Tm	Mounting Temperature	310℃	1min, N_2 Protection
Tstg	Storage Temperature	-55~175℃	

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

Outline Size



Assembly Drawing