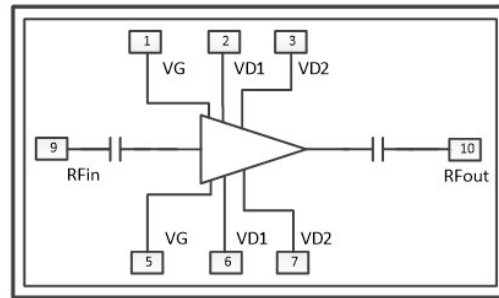


Performance

- Frequency: 6~18GHz
- Typical Signal Gain: 24dB
- Typical Pout: 41dBm @28V
- Typical PAE: 26%
- Bias: $V_d=28V$, $I_{dq}=-1.8A$ (Typ.)
- Size: 3.5*3.55mm*0.08mm
- Technology: 0.20um HEMT
- Performance under CW operation

Function Diagram

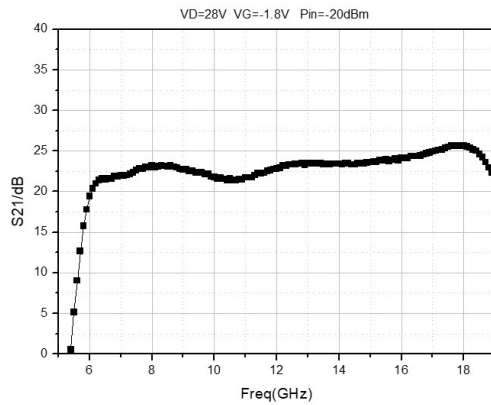


Electrical Specifications ($V_d=28V$, $I_{dq}=1.5A$, F: 6~18GHz, CW)

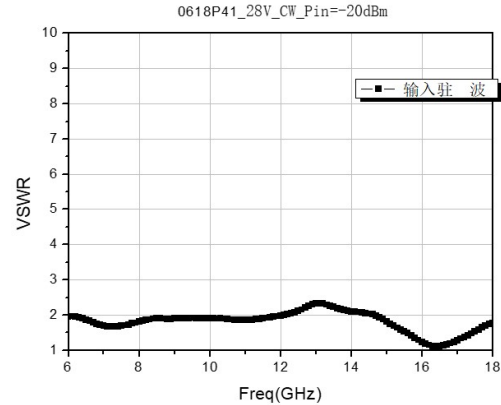
Parameter	Min	Typical	Max	Unit
Small Signal Gain	-	24	-	dB
Power Gain	-	16	-	dB
Saturated Power	-	41	-	dBm
Power Added Efficiency	-	26	-	%

Test Curves ($V_d=28V$, $V_g=-1.8V$, F: 6-18GHz, CW)

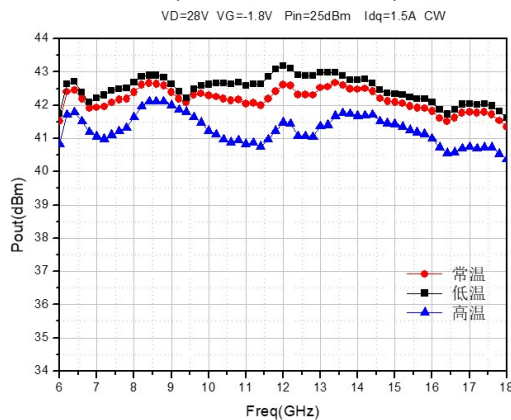
Small Signal Gain vs. Freq



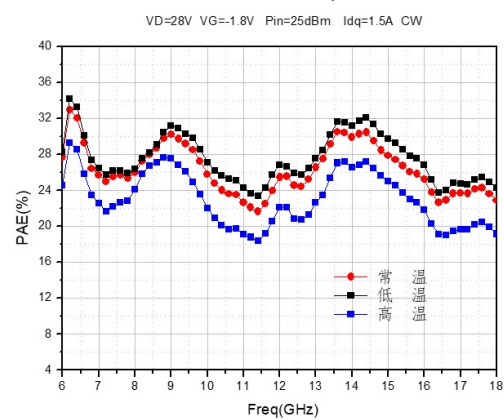
Input VSWR vs. Freq



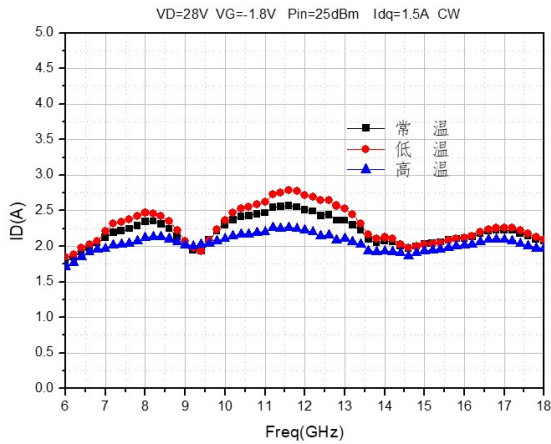
Output Power vs. Freq



PAE vs. Freq



Drain Current vs. Freq



Absolute Max Ratings (TA=25°C)

Symbol	Parameter	Value	Remark
Vd	Drain Voltage	30V	
Id	Drain Current	3A	
Vg	Gate Voltage	-10V	
Ig	Gate Current	50mA	
Pd	DC Power	70W	
Pin	Input Power	28dBm	
Tch	Channel Temperature	225°C	
Tm	Mounting Temperature	310°C	1min, N2 Protection
Tstg	Storage Temperature	-55~175°C	

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

