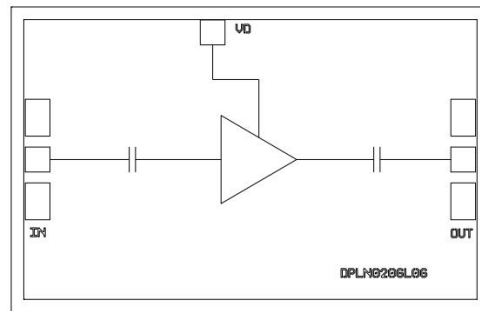


Performance

- Frequency: 2~6GHz
- Noise Figure: 0.6dB
- Typical Gain: 25dB
- Typical P-1: 13dBm
- VSWR in/out: 1.5/1.7
- Supply: +5V
- Technology: 0.15um low noise PHEMT
- Size: 1.9mm*1.2mm*0.1mm

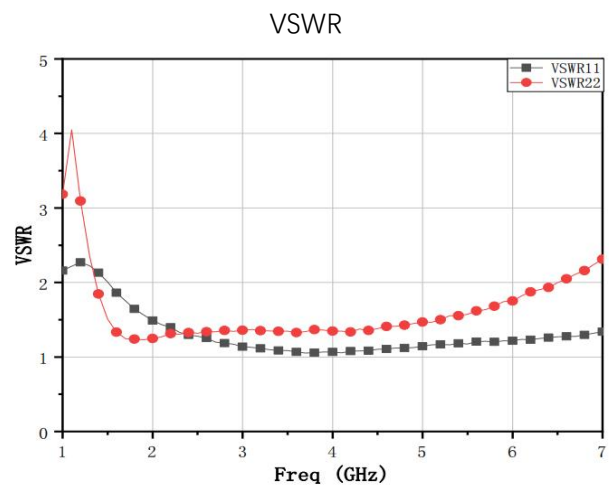
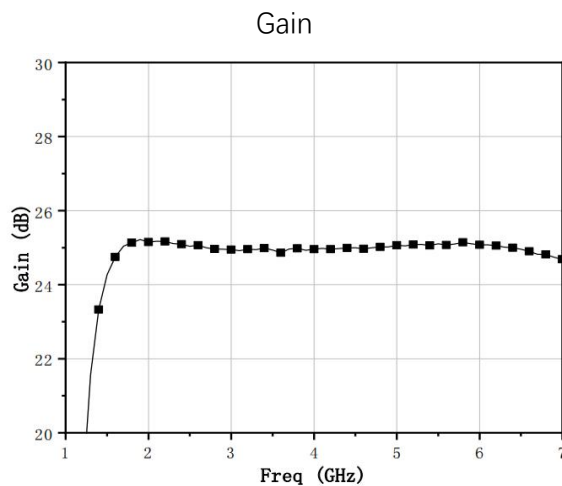
Function Diagram

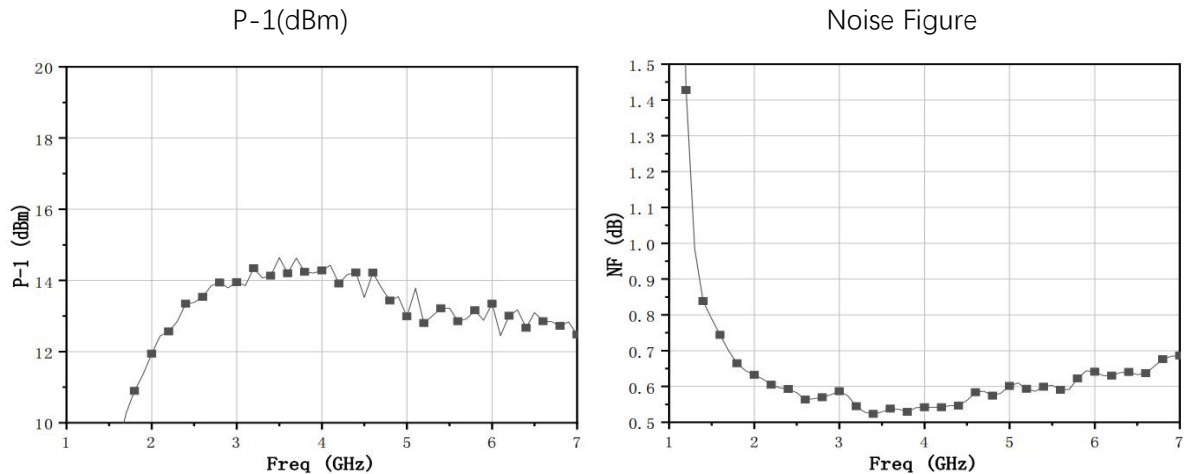


Electrical Specifications (T_A=25°C, V_d=5V, F: 2~6GHz)

Symbol	Parameter	Min	Typical	Max	Unit
G	Small Signal Gain	23.5	25	-	dB
NF	Noise Figure	-	0.6	0.8	dB
VSWRin	Input VSWR	-	1.5	1.8	
VSWRout	Output VSWR		1.7	2.0	
P-1	Pout at 1dB compression	10	13	-	dBm
Id	Drain Current		45	60	mA

Test Curves

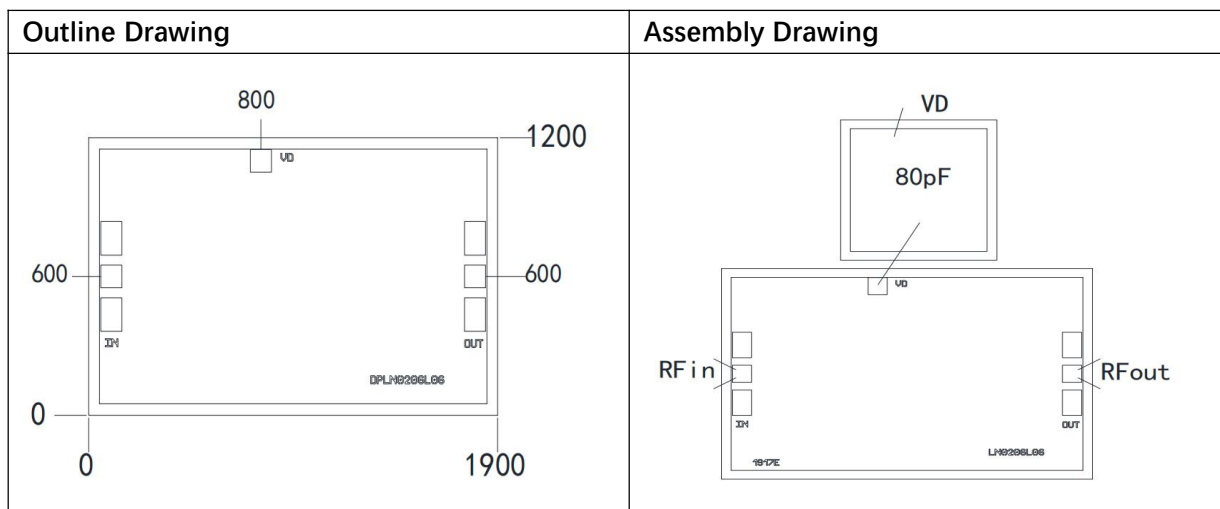




Absolute Max Ratings (TA=25°C)

Symbol	Parameter	Value	Remark
Vd	Drain Voltage	7V	
Pin	Input Power	20dBm	
Tch	Channel Temperature	150°C	
Tm	Mounting Temperature	290°C	30 s, N2 Protection
Tstg	Storage Temperature	-55~150°C	

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



Pads Definition

Pad	Description
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	Amplifier drain bias, connect to external 80pF capacitor
GND	Bottom must be well connected with RF and DC ground