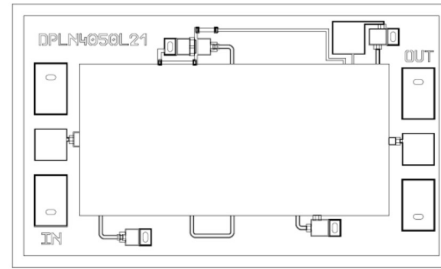


Performance

- Frequency: 40-50GHz
- Noise Figure: 2.0dB
- Typical Gain: 18dB
- Typical P_{1dB}: 2dBm
- VSWR_{in/out}: 2.2/1.8
- Voltage: V_d=+5V
- Size: 1.34*0.8mm*0.05mm

Function Diagram

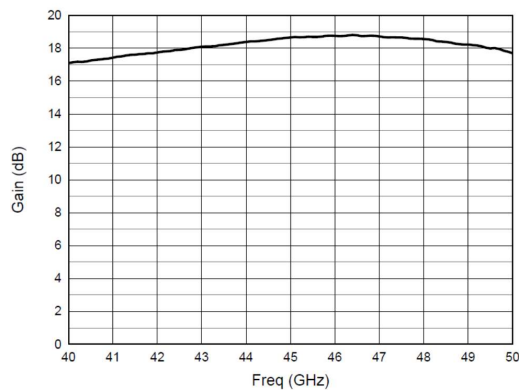


Electrical Specifications (V_d=5V, F: 40-50GHz)

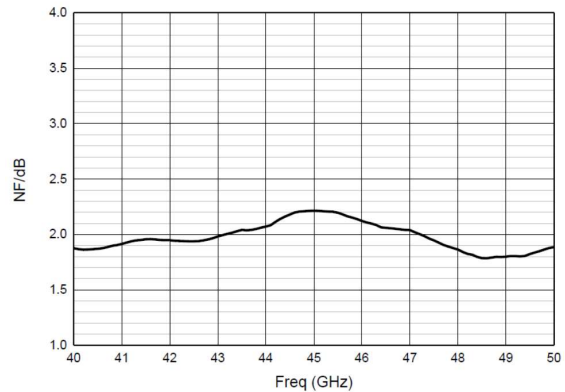
Symbol	Parameter	Min	Typical	Max	Unit
G	Small Signal Gain	16	18	-	dB
NF	Noise Figure	-	2.0	2.4	dB
VSWR _{in}	Input VSWR	-	2.2	3	-
VSWR _{out}	Output VSWR	-	1.8	2.5	-
P _{1dB}	P _{out} at 1dB compression	-1	2	-	dBm
I _d	Drain Current	-	11	15	mA

Test Curves

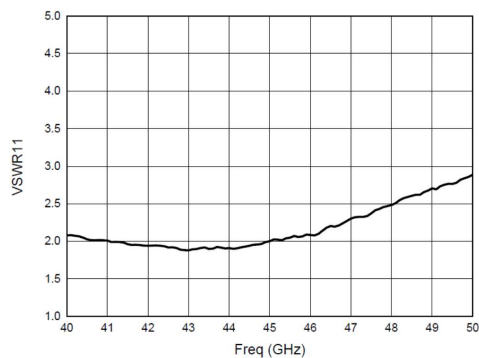
Small Signal Gain VS Frequency



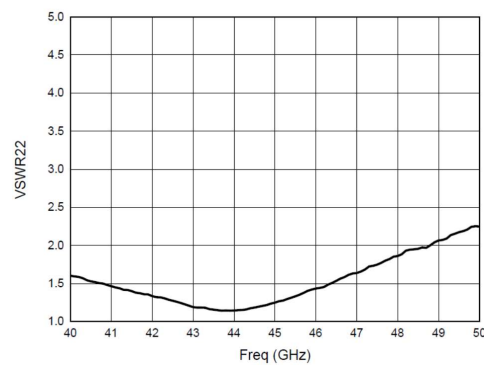
NF VS Frequency

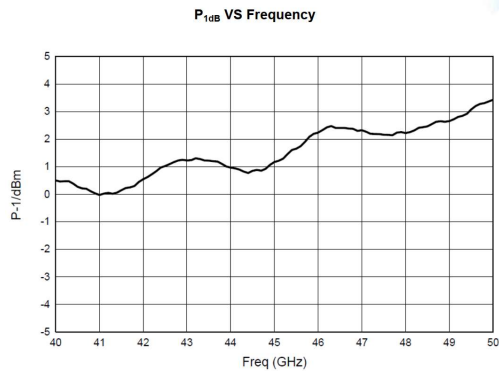


VSWR_{in} VS Frequency



VSWR_{out} VS Frequency



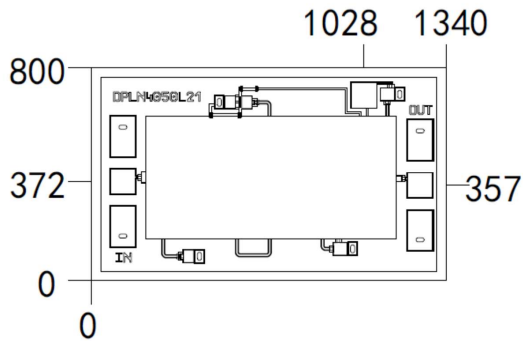


Absolute Max Ratings (T_A=25°C)

Symbol	Parameter	Value	Remark
V _d	Drain Voltage	7V	
P _{in}	Input Power	17dBm	
T _{ch}	Channel Temperature	150°C	
T _m	Mounting Temperature	290°C	30sec, N ₂ protection
T _{stg}	Storage Temperature	-55~150°C	

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

Outline Size (mm)



Assembly Diagram

