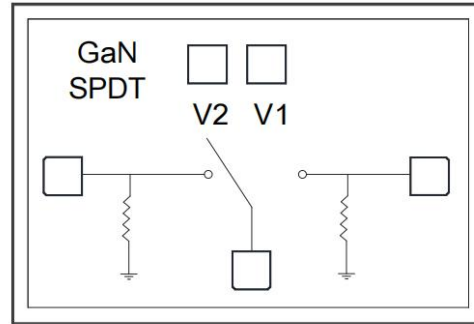


Performance

- Frequency: 18~24GHz
- Insertion loss: 1.3dB
- Isolation: 45dB
- Input P-0.3: 43dBm
- Absorb load: 41dBm
- Input/Output VSWR: 1.4:1
- Switching Time: 20ns
- Control Mode: 0/-40V
- Voltage Controlled Absorptive Switch
- Chip size: 2.0*2.4*0.08mm

Function Diagram



Electrical Specifications (Ta=+25°C, V1~V2=0V/-40V, F=18~24GHz)

Symbol	Parameter	Min.	Typ.	Max.	Unit
Li	Insertion Loss	-	1.3	-	dB
ISO	Isolation	-	45	-	dB
VSWR	Input / Output VSWR	-	1.4	-	-

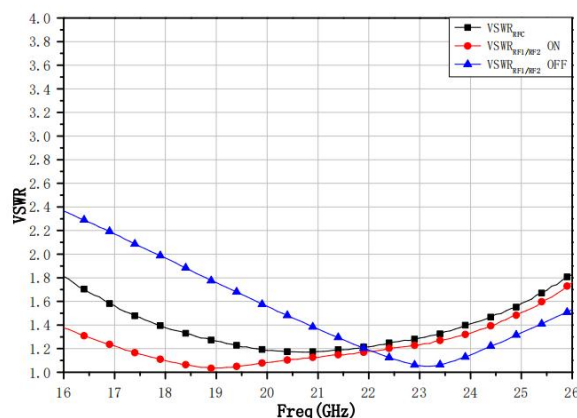
Absolute Maximum Ratings (Ta=+25°C)

Symbol	Parameter	Value	Notes
V1,V2	Control Voltage	-60V	
P _{cw}	Input Continuous Wave Power	44dBm	
T _{ch}	Channel Temperature	225°C	
T	Sintering Temperature	310°C	30s, N2 protection
T _{stg}	Storage Temperature	-65~150°C	

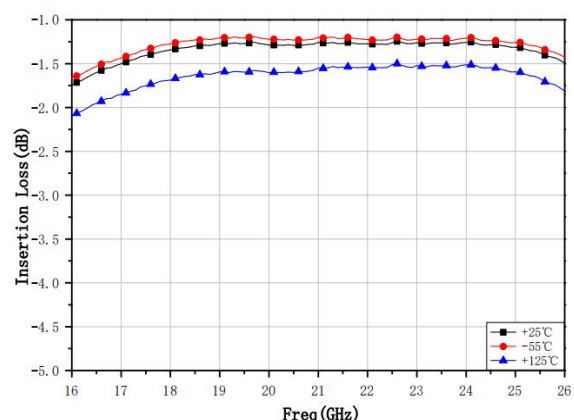
Exceed any of above listed ratings may cause permanent damage.

Test Curves (Ta=+25°C, (V_{1,2}=-40V))

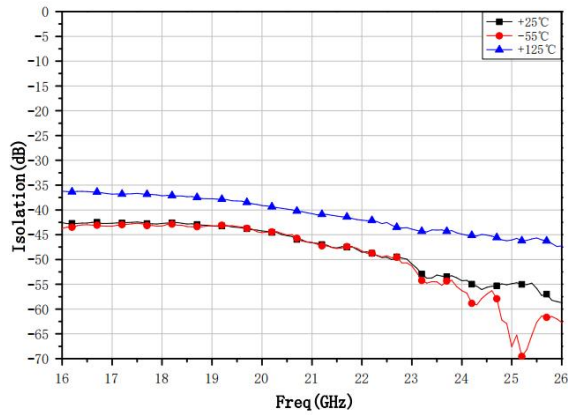
VSWR



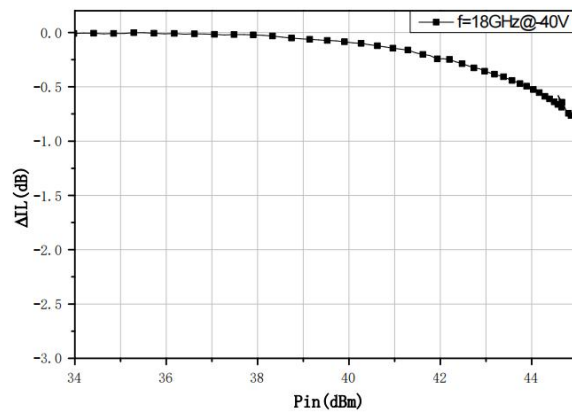
Insertion Loss @ Different temperature



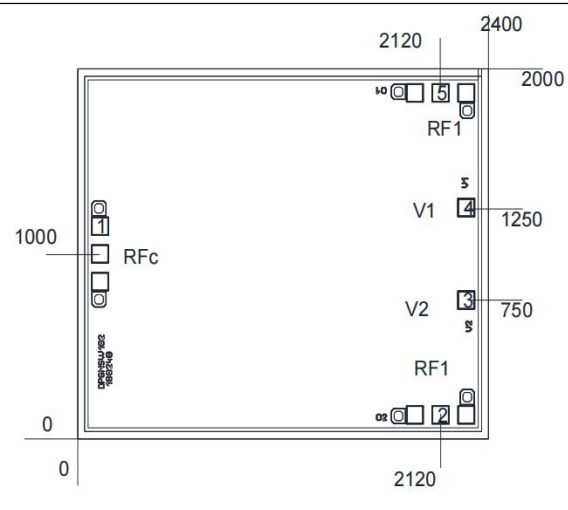
Isolation@ Different temperature



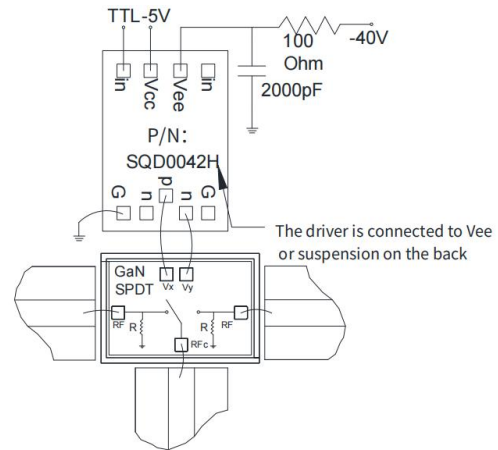
Input Power (Y axis is normalized value of I.L)



Outline Size (μm)



Assembly Diagram



Note: 1, For same pads, choose any of them.

2, RF input/output gold wire length is less than 200μm.

PIN Definition

PIN	Description
RF1、RF2	RF ports, 50Ω, no block capacitor
RFc	RF common ports, 50Ω, block capacitor
V1、V2	Control Ports
GND	Bottom must be grounded

Truth Table

V1	V2	RFc→RF1	RFc→RF2
0	1	ON	OFF
1	0	OFF	ON

Note: 1. Low level "0" is -28V~-40V, High level "1" is 0V~0.5V

2. Performance is same under condition of -28V ~ -40V