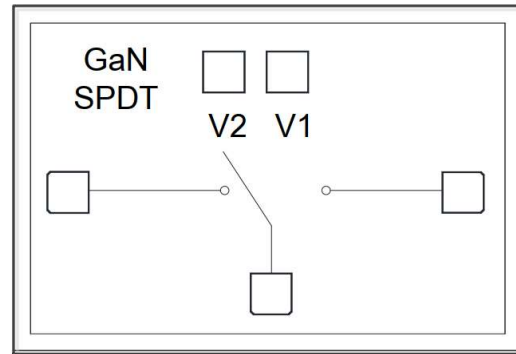


### Performance

- Frequency: 6~18GHz
- Insertion loss: 1.2dB
- Isolation: 42dB
- Input P-0.3: 50dBm
- Input/Output VSWR: 1.8:1
- Switching Time: 20ns
- Control Mode: 0/-40V
- Voltage Control, SPDT Reflective
- Chip size: 3.0\*1.5\*0.08mm

### Function Diagram



### Electrical Specifications (Ta=+25°C, V1~V2=0V/-40V, F=6~18GHz)

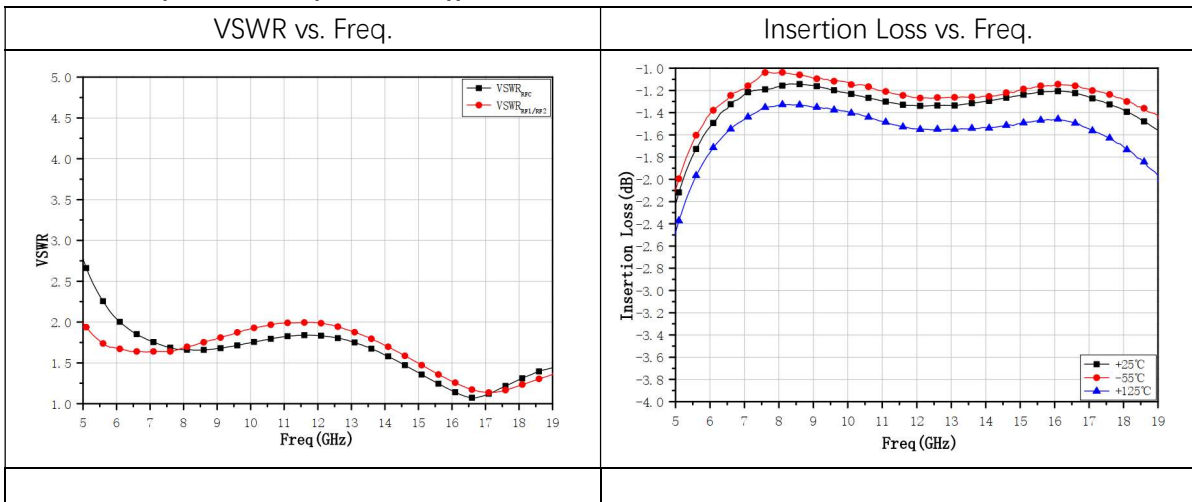
| Symbol | Parameter           | Min. | Typ. | Max. | Unit |
|--------|---------------------|------|------|------|------|
| Li     | Insertion Loss      | -    | 1.2  | -    | dB   |
| ISO    | Isolation           | -    | 42   | -    | dB   |
| VSWR   | Input / Output VSWR | -    | 1.8  | -    | -    |

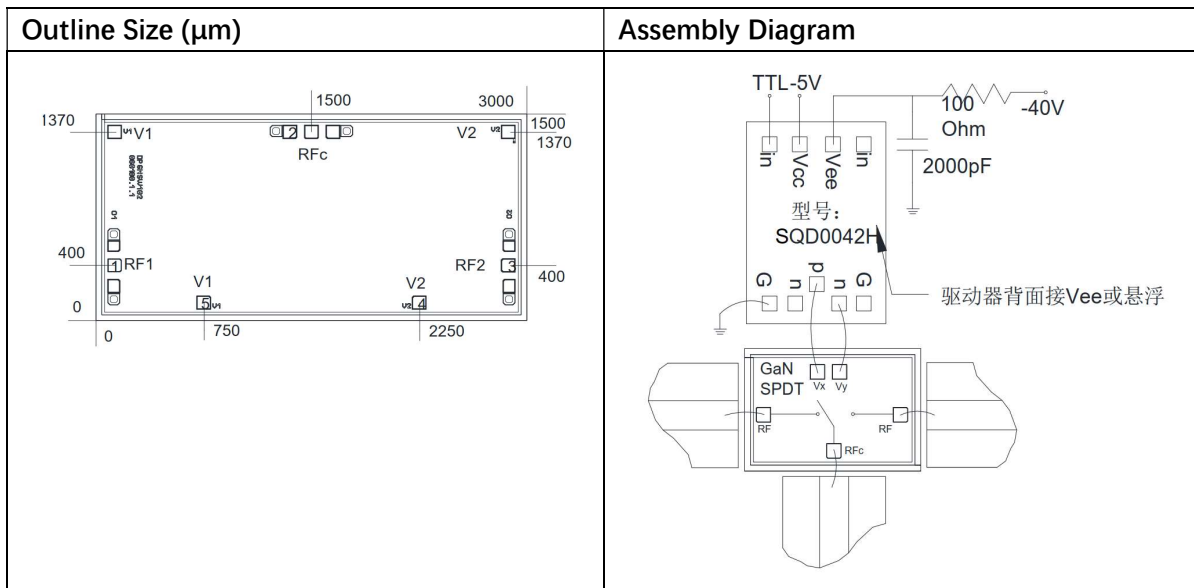
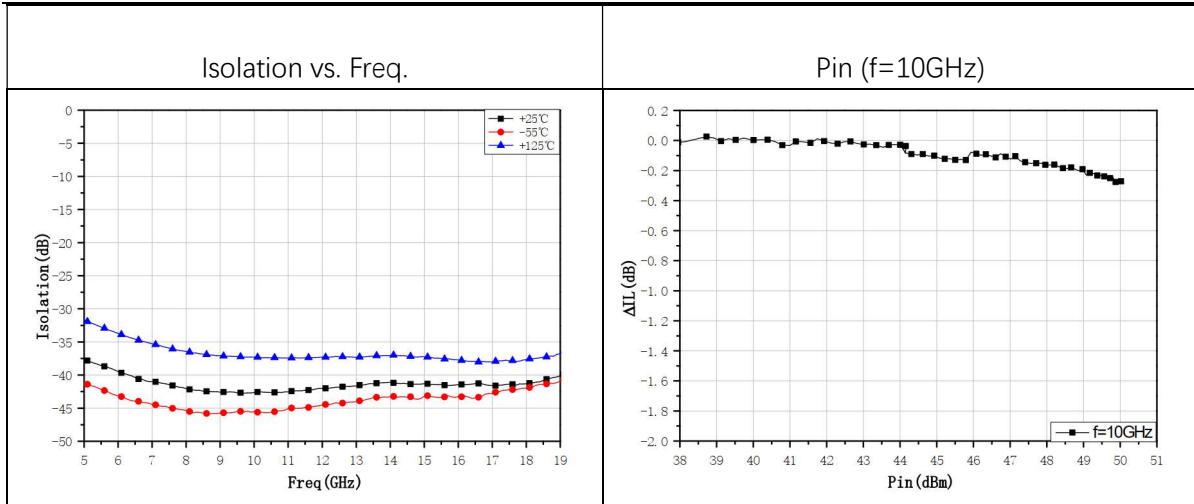
### Absolute Maximum Ratings (Ta=+25°C)

| Symbol | Parameter                   | Value     | Notes              |
|--------|-----------------------------|-----------|--------------------|
| V1,2   | Control Voltage             | -60V      |                    |
| Pcw    | Input Continuous Wave Power | 51dBm     |                    |
| Tch    | Channel Temperature         | 225°C     |                    |
| T      | Sintering Temperature       | 310°C     | 30s, N2 protection |
| Tstg   | Storage Temperature         | -65~150°C |                    |

Exceed any of above listed ratings may cause permanent damage.

### Test Curves (Ta=+25°C, (V1,2=-40V))





Note: 1, For same pads, choose any of them.  
2, RF input/output gold wire length is less than 250um.

**PIN Definition**

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

**Truth Table**

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

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