

Performance

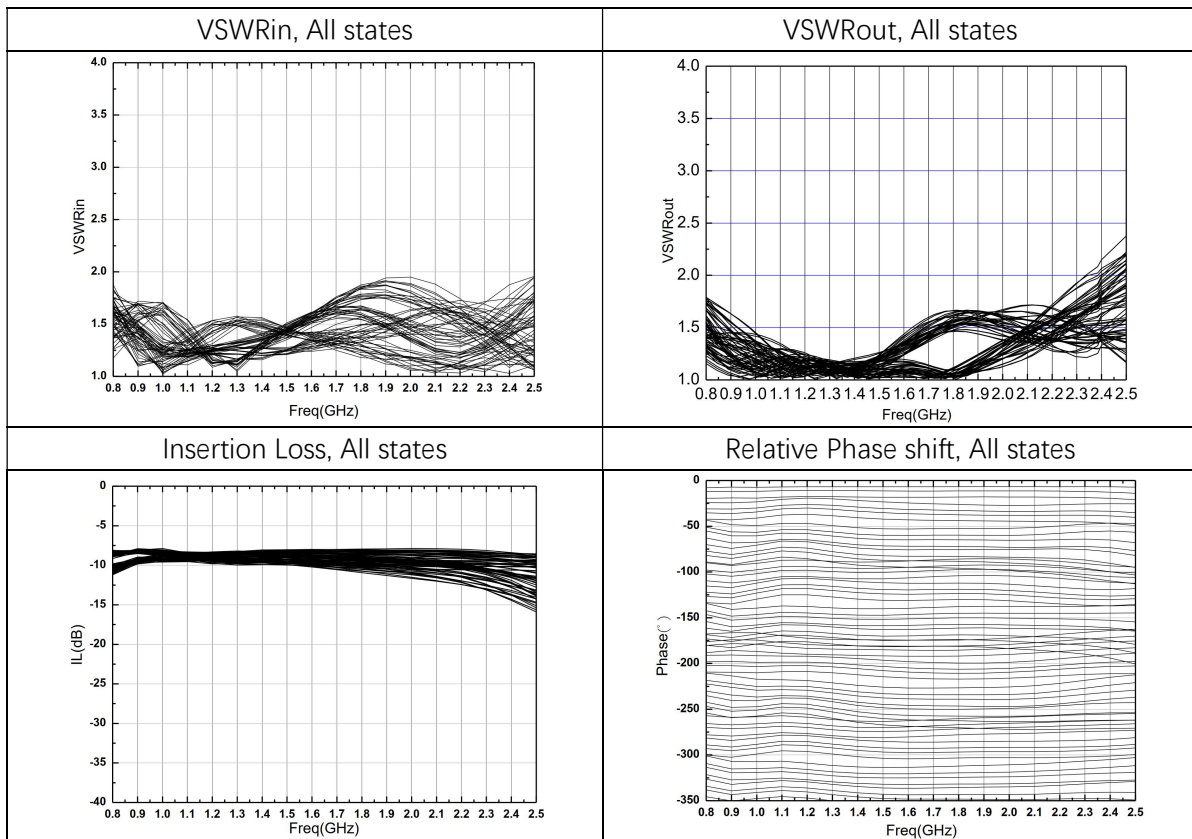
- Frequency: 0.8-2.4GHz
- Insertion loss: 12dB
- Phase shift accuracy (RMS): 3°
- Amplitude Ripple: ± 1.0 dB
- Chip size: 9.8*3.27*0.1mm

Electrical Specifications (Ta=+25°C, 0/-5V control, 50Ω system)

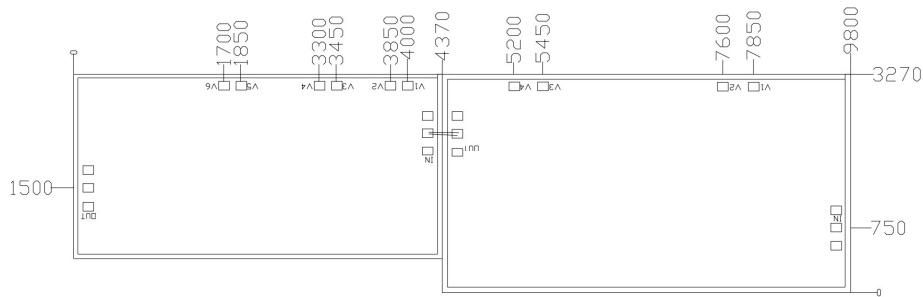
| Parameter | Test Frequency | Min | Typical | Max | Unit |
|----------------------------|----------------|-----|---------|------|------|
| Insertion Loss | 0.8-2.4GHz | - | 12 | 14.5 | dB |
| Amplitude Ripple | 0.8-2.4GHz | - | 1 | 2 | dB |
| Phase shift accuracy (RMS) | 0.8-2.4GHz | - | 3 | 5 | deg |
| VSWR | 0.8-2.4GHz | - | 1.5 | 2.2 | |

It is suggested to place a 0.1~5uF bypass capacitor at Vee and Vcc pins.

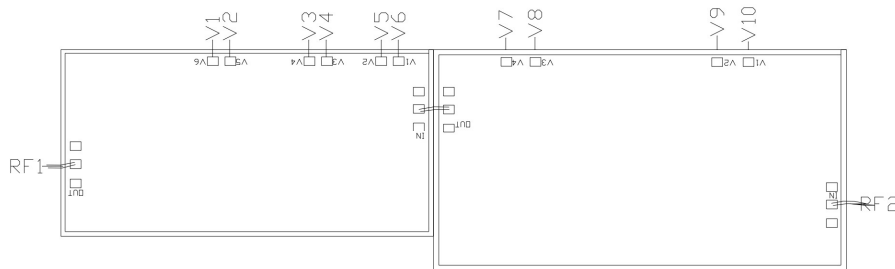
Test Curves



Outline Size:



Application Circuits:



Truth Table

| Pin No | V1 | V2 | V3 | V4 | V5 | V6 | V7 | V8 | V9 | V10 |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Reference | -5V | 0V | -5V | 0V | -5V | -5V | -5V | 0V | -5V | 0V |
| 5.625° | -5V | 0V | -5V | 0V | -5V | 0V | -5V | 0V | -5V | 0V |
| 11.25° | -5V | 0V | -5V | 0V | 0V | -5V | -5V | 0V | -5V | 0V |
| 22.5° | -5V | 0V | -5V | 0V | -5V | -5V | 0V | -5V | -5V | 0V |
| 45° | -5V | 0V | 0V | -5V | -5V | -5V | -5V | 0V | -5V | 0V |
| 90° | 0V | -5V | -5V | 0V | -5V | -5V | -5V | 0V | -5V | 0V |
| 180° | -5V | 0V | -5V | 0V | -5V | -5V | -5V | 0V | 0V | -5V |

Absolute Maximum Ratings

| Symbol | Parameter | Value | Remark |
|--------|-----------------------|-----------|---------------------------------|
| V1-6 | Control Voltage | 0.5V/-7V | |
| Pin | Input Power (CW mode) | 25dBm | |
| Tch | Channel Temperature | 150°C | |
| Tm | Mounting Temperature | 300°C | 1min, N ₂ protecting |
| Tstg | Storage Temperature | -55~150°C | |

Exceed any of above ratings may cause permanent damage.