

## Product features

Broadband, small volume.

## Main specifications

| Parameters        | Min  | Typical | Max  | Units |
|-------------------|------|---------|------|-------|
| Frequency         | 1000 | ~       | 2500 | MHz   |
| IL                |      | 1       | 2.5  | dB    |
| Isolation         | 14   | 19      |      | dB    |
| Input VSWR        |      | 1.6     |      |       |
| Output VSWR       |      | 1.6     |      |       |
| Amplitude balance |      | 0.8     | 1.2  | dB    |
| Phase balance     |      | 8       | 14   | °     |

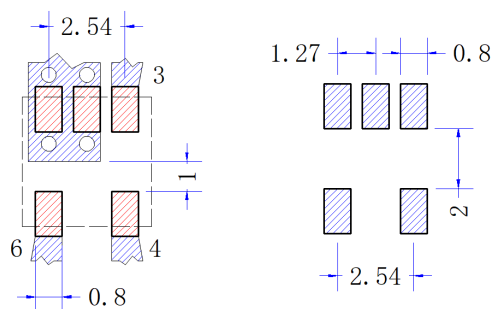
## Other parameters

|               |                             |
|---------------|-----------------------------|
| Power         | 1W                          |
| way           | 2-way                       |
| Phase         | 0°                          |
| Impedance     | 50Ω                         |
| Connector     | SMD                         |
| Work Temp.    | -40~+85°C Design assurance  |
| Storage Temp. | -55~+100°C Design assurance |
| Quality Grade | Industrial grade            |
| Other         | Replace SBTC-2-25+          |

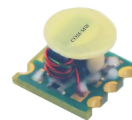
## Port Definition

|               |     |
|---------------|-----|
| Common port   | 6   |
| Dispatch Port | 3,4 |
| GND           | 1,2 |

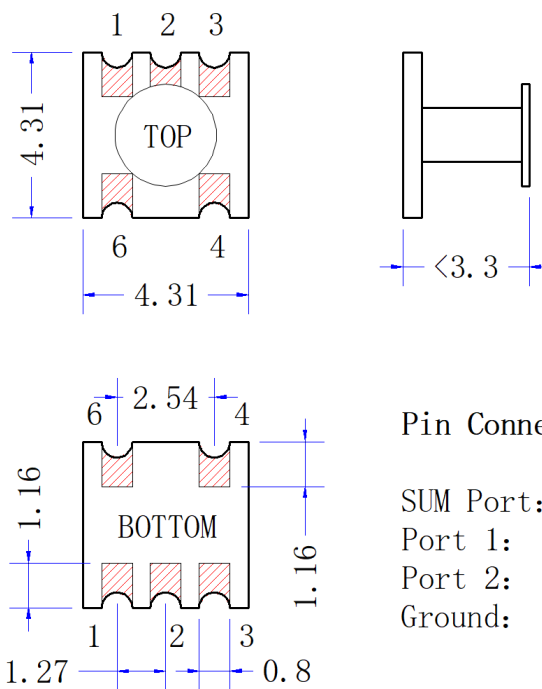
## Suggested PCB Layout



## Reference picture



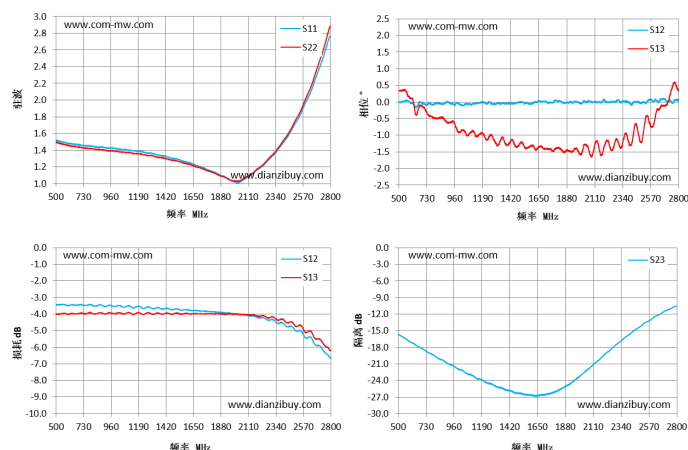
## Configuration(mm)



## Pin Connections

SUM Port: 6  
Port 1: 4  
Port 2: 3  
Ground: 1, 2

## Typical test curve



## Typical test data

| Frequency(MHz) | S11<br>VSW<br>R | S22<br>VSW<br>R | S12<br>IL<br>dB | S13<br>IL<br>dB | S23<br>ISO<br>dB |
|----------------|-----------------|-----------------|-----------------|-----------------|------------------|
| 500            | 1.52            | 1.49            | -3.44           | -4.01           | -15.7            |
| 664            | 1.47            | 1.44            | -3.47           | -3.99           | -17.8<br>6       |
| 829            | 1.44            | 1.41            | -3.52           | -4              | -19.9<br>9       |
| 993            | 1.42            | 1.39            | -3.55           | -3.98           | -21.9<br>2       |
| 1157           | 1.39            | 1.36            | -3.62           | -4              | -23.7<br>3       |
| 1321           | 1.36            | 1.33            | -3.68           | -4              | -25.2<br>3       |
| 1486           | 1.3             | 1.28            | -3.73           | -3.99           | -26.3<br>5       |
| 1650           | 1.23            | 1.21            | -3.79           | -3.98           | -26.7<br>7       |
| 1814           | 1.14            | 1.13            | -3.87           | -3.99           | -25.9<br>3       |
| 1979           | 1.03            | 1.03            | -3.97           | -4.01           | -23.6<br>1       |
| 2143           | 1.11            | 1.12            | -4.12           | -4.05           | -20.5<br>6       |
| 2307           | 1.32            | 1.33            | -4.33           | -4.17           | -17.4<br>2       |
| 2471           | 1.63            | 1.66            | -4.74           | -4.47           | -14.6<br>3       |
| 2636           | 2.1             | 2.16            | -5.43           | -5.07           | -12.2<br>6       |
| 2800           | 2.77            | 2.88            | -6.66           | -6.23           | -10.5<br>5       |

## Note

- 1 Please do not wash the product in the cleaning solution.,Please do not wash the product in the cleaning solution.
- 2 The product supports 260 °C reflow soldering.