

## Main specifications

| Parameters        | Min | Typical | Max  | Units |
|-------------------|-----|---------|------|-------|
| Frequency         | 50  | ~       | 2000 | MHz   |
| IL                |     | 1.2     |      | dB    |
| Coupling          | 16  | 17      | 18   | dB    |
| Directivity       | 6   | 10      |      | dB    |
| Main line VSWR    |     | 1.3     |      |       |
| Coupled line VSWR |     | 1.3     |      |       |

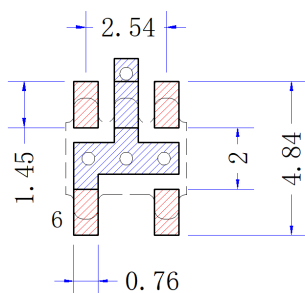
## Other parameters

|                 |                            |
|-----------------|----------------------------|
| Connector       | SMD                        |
| Impedance       | 50Ω                        |
| Power Capacity  | 2W                         |
| Operation Temp. | -40~+85°C Design assurance |
| Quality Grade   | Industrial grade           |
| Other           | /                          |

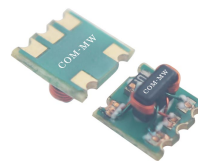
## Port Definition

|               |      |
|---------------|------|
| Input port    | 3    |
| Output port   | 4    |
| Coupling port | 1    |
| Isolated Port | 2, 6 |

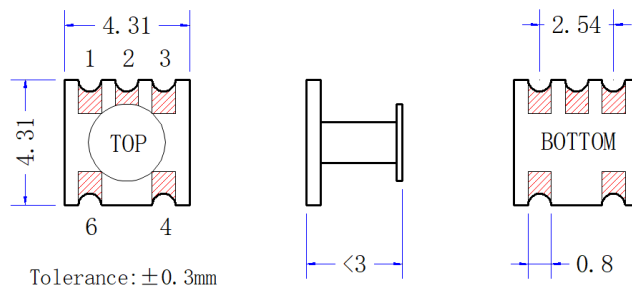
## Suggested PCB Layout



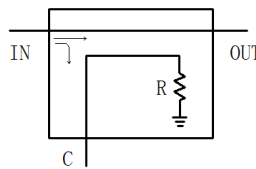
## Reference picture



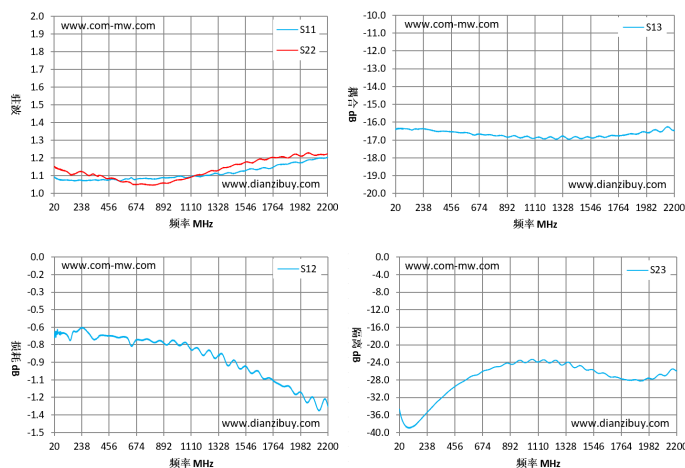
## Configuration(mm)



## Electrical Schematic



## Typical test curve



## Note

- Clean the surface of the product, do not soak the product in cleaning solution for cleaning.
- The product supports 260 °C reflow soldering.

## Typical test data

| Frequency(MHz) | S11<br>VSW<br>R | S22<br>VSW<br>R | S13<br>coupl<br>ing | S12<br>IL<br>dB | S23<br>ISO<br>dB |
|----------------|-----------------|-----------------|---------------------|-----------------|------------------|
| 20             | 1.09            | 1.15            | -16.39              | -0.6<br>6       | -34.6<br>9       |
| 176            | 1.07            | 1.11            | -16.37              | -0.6<br>3       | -37.3<br>8       |
| 331            | 1.07            | 1.11            | -16.5               | -0.7            | -32.6<br>1       |
| 487            | 1.08            | 1.08            | -16.55              | -0.6<br>8       | -28.8<br>8       |
| 799            | 1.08            | 1.05            | -16.77              | -0.7<br>2       | -24.9<br>7       |
| 954            | 1.09            | 1.06            | -16.77              | -0.7<br>2       | -23.6            |
| 1110           | 1.09            | 1.09            | -16.9               | -0.7<br>9       | -23.9            |
| 1266           | 1.1             | 1.13            | -16.95              | -0.8<br>1       | -23.7<br>8       |
| 1421           | 1.11            | 1.15            | -16.82              | -0.9<br>2       | -24.9<br>2       |
| 1733           | 1.14            | 1.2             | -16.76              | -1.0<br>3       | -27.3<br>8       |
| 1889           | 1.17            | 1.2             | -16.67              | -1.1            | -28              |
| 2044           | 1.19            | 1.23            | -16.42              | -1.2<br>4       | -27.1<br>5       |

Note: The specifications and performance data contained in this data sheet are based on tests established by CMW.