

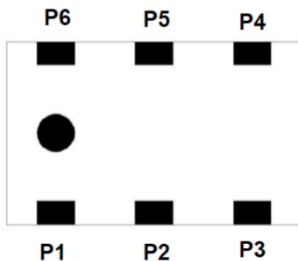
### Features

- Multilayer monolithic construction yields high reliability
- Low insertion loss and small size SMD chip design
- Can simplify your complex tuning and circuit design
- LTCC process

### Specifications

| NO.   | Items                          | Spec      | Unit |
|---|--------------------------------|-----------|------|
| 1   | Frequency range                | 2800~6000 | MHz  |
| 2   | Unbalanced Impedance           | 50        | Ohms |
| 3   | Differential Balanced Imp.     | 100       | Ohms |
| 4   | Return Loss at Unbalanced Port | 9.5 min.  | dB   |
| 5   | Insertion Loss                 | 1.5 max.  | dB   |
| 6   | Amplitude Difference           | 1.8 max.  | dB   |
| 7   | Phase Difference               | 180 ± 12  | deg  |
| 8   | CMRR                           | 15 min.   | dB   |
| 9   | Power Capacity (CW)            | 3 max.    | W    |
| <b>Operating &amp; Storage Condition (Component)</b>                    |                                |           |      |
| Operation Temperature Range: -40°C ~ +85°C                              |                                |           |      |
| Storage Temperature Range: -40°C ~ +85°C                                |                                |           |      |
| <b>Storage Condition before Soldering (Included packaging material)</b> |                                |           |      |
| Storage Temperature Range: +5 ~ +40 °C                                  |                                |           |      |
| Humidity: 30 to 70% relative humidity                                   |                                |           |      |

### Construction



|    |                         |    |              |
|----|-------------------------|----|--------------|
| P1 | Unbalance Port          | P4 | Balance Port |
| P2 | GND or DC feed + RF GND | P5 | GND          |
| P3 | Balance Port            | P6 | NC           |

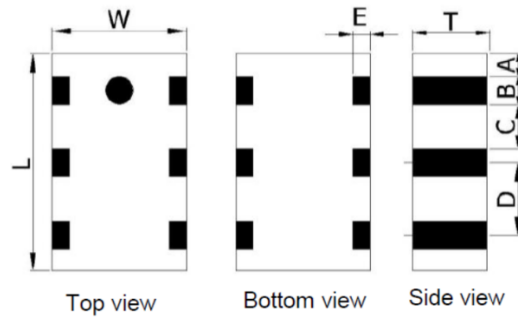
### Yantel Corporation

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For detailed performance specs & shopping online see Yantel web site : [www.yantel-corp.com](http://www.yantel-corp.com)

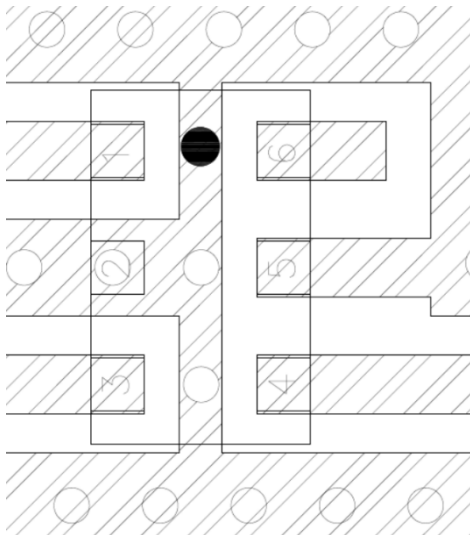
## Dimensions



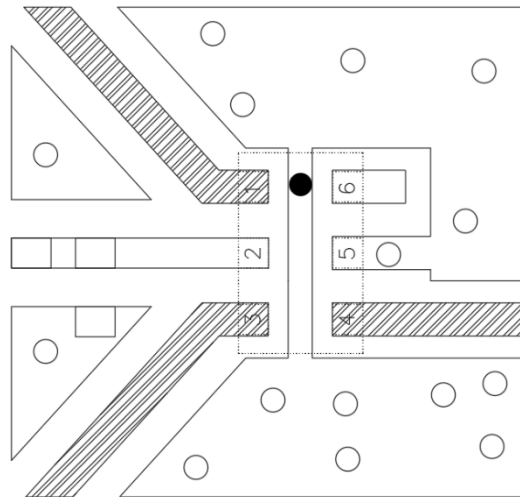
| Symbol         | L              | W               | T               | A              | B              | C              | D              | E              |
|----------------|----------------|-----------------|-----------------|----------------|----------------|----------------|----------------|----------------|
| Dimension (mm) | $2.0 \pm 0.15$ | $1.25 \pm 0.15$ | $0.95 \pm 0.15$ | $0.20 \pm 0.1$ | $0.30 \pm 0.1$ | $0.35 \pm 0.1$ | $0.65 \pm 0.1$ | $0.25 \pm 0.1$ |

## Mounting Considerations

Without DC Feed

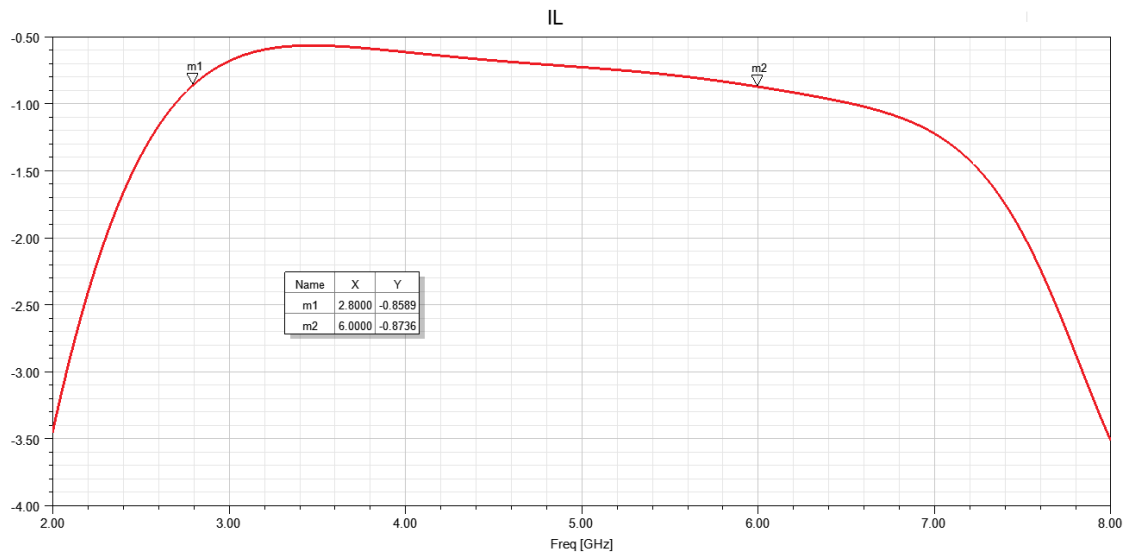
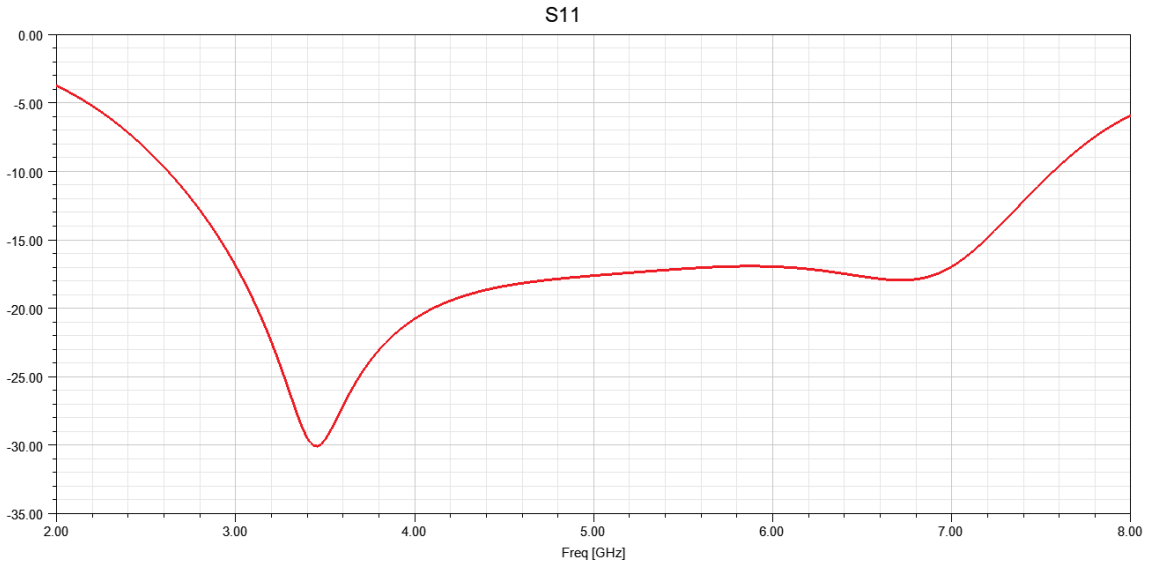


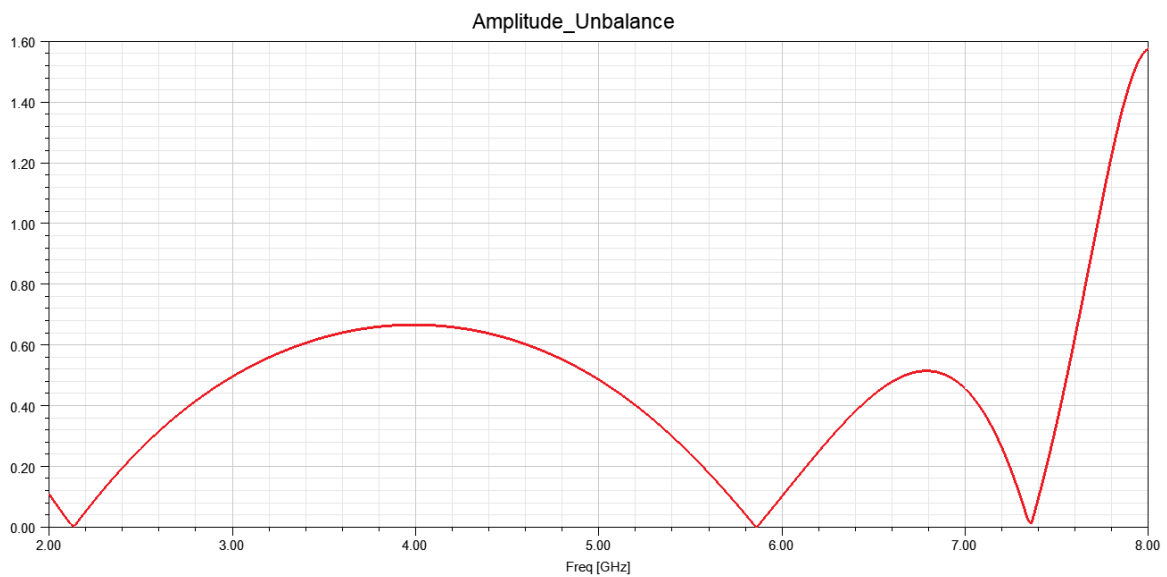
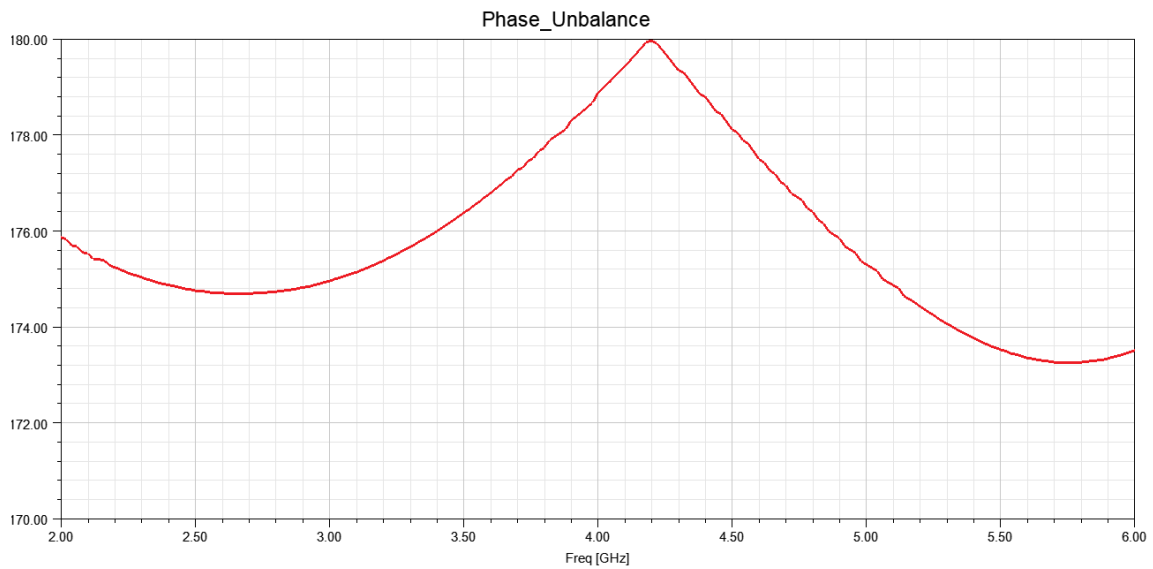
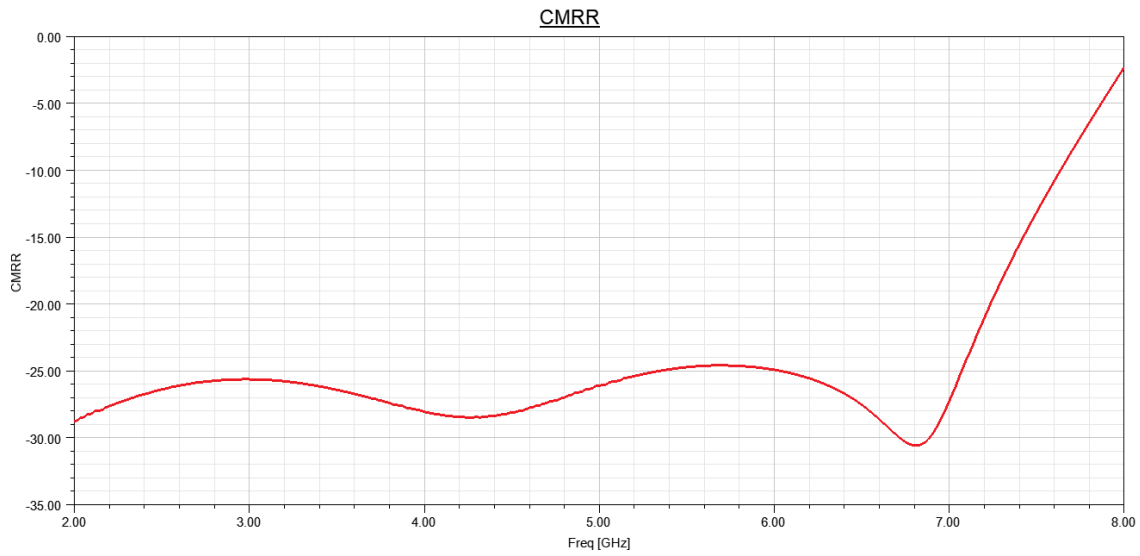
With DC Feed



Line width to be design to match 50W characteristic impedance, depending on PCB material and thickness

### Typical Electrical Characteristics (T=25°C)





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