

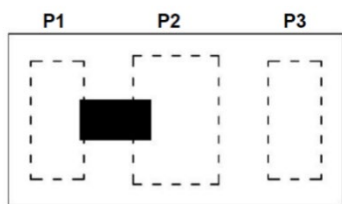
### Features

- 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

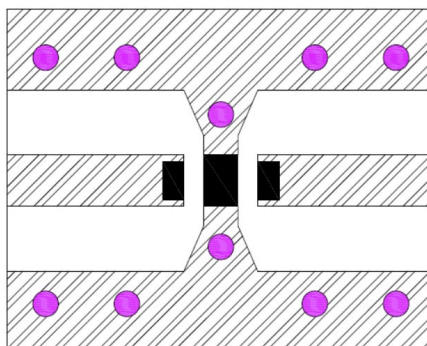
| NO.                                                                                                                                                        | Parameter                           | Frequency (MHz) | SPC  |      |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----------------|------|------|------|
|                                                                                                                                                            |                                     |                 | Min. | Typ. | Max. |
| 1                                                                                                                                                          | Insertion Loss (dB)                 | 5150~5250       |      | 1.0  | 1.5  |
|                                                                                                                                                            |                                     | 5250~5330       |      | 1.0  | 1.5  |
|                                                                                                                                                            |                                     | 5490~5730       |      | 1.0  | 1.5  |
|                                                                                                                                                            |                                     | 5730~5925       |      | 1.0  | 1.5  |
| 2                                                                                                                                                          | Insertion Loss (dB)<br>-40 ~ +90 °C | 5150~5250       |      |      | 1.7  |
|                                                                                                                                                            |                                     | 5250~5330       |      |      | 1.7  |
|                                                                                                                                                            |                                     | 5490~5730       |      |      | 1.7  |
|                                                                                                                                                            |                                     | 5730~5925       |      |      | 1.7  |
| 3                                                                                                                                                          | VSWR                                |                 |      |      | 2.0  |
| 4                                                                                                                                                          | Attenuation (dB)                    | 700~2690        | 35   |      |      |
|                                                                                                                                                            |                                     | 3300~3800       | 28   |      |      |
|                                                                                                                                                            |                                     | 3800~4000       | 28   |      |      |
|                                                                                                                                                            |                                     | 4400~4600       | 3.5  |      |      |
|                                                                                                                                                            |                                     | 6900~7200       | 8    |      |      |
|                                                                                                                                                            |                                     | 7200~7800       | 20   |      |      |
|                                                                                                                                                            |                                     | 7800~9800       | 18   |      |      |
|                                                                                                                                                            |                                     | 9800~11700      | 20   |      |      |
|                                                                                                                                                            |                                     | 14700~17850     | 15   |      |      |
| 5                                                                                                                                                          | In/Output Impedance (Ω)             |                 |      | 50   |      |
| <b>Operating &amp; Storage Condition (Component)</b><br>Operation Temperature Range: -40°C ~ +85°C<br>Storage Temperature Range: -40°C~ +85°C              |                                     |                 |      |      |      |
| <b>Storage Condition before Soldering (Included packaging material)</b><br>Storage Temperature Range: +5 ~ +40 °C<br>Humidity: 30 to 70% relative humidity |                                     |                 |      |      |      |

### Construction



| PIN | Connection  |
|-----|-------------|
| 1   | Input port  |
| 2   | GND         |
| 3   | Output port |

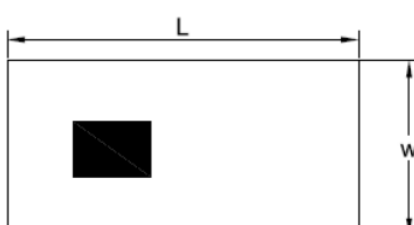
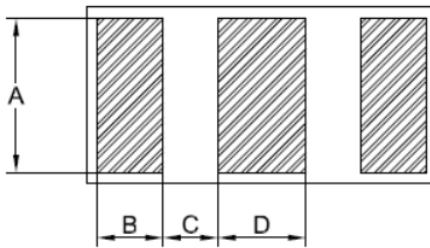
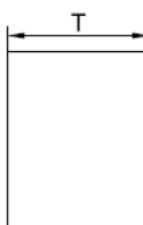
### Mounting Considerations



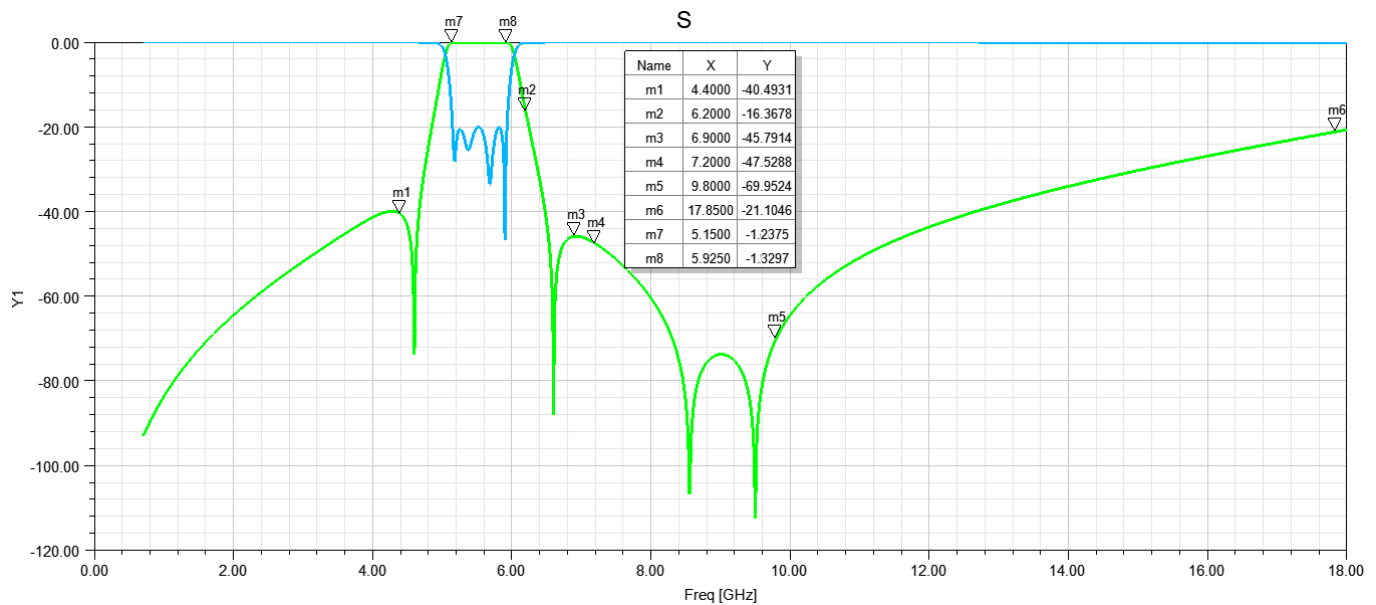
- Land
- Solder
- Through-hole

Unit: mm  
Line width to be designed to match 50  $\Omega$  characteristic impedance, depending on PCB material and thickness

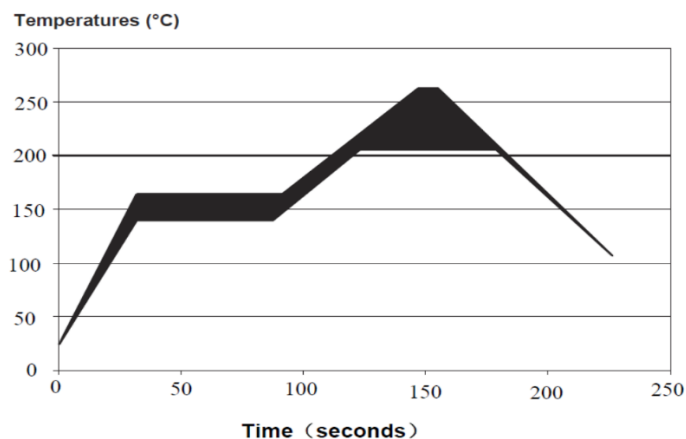
### Dimensions

| Figure                                                                                                                                                                                                                                                                                                                                                                                              | Symbol | Dimension (mm) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------|
| <p style="text-align: center;">TOP View</p>  <p style="text-align: center;">Bottom View</p>  <p style="text-align: center;">Side View</p>  | L      | 1.60±0.10      |
|                                                                                                                                                                                                                                                                                                                                                                                                     | W      | 0.80±0.10      |
|                                                                                                                                                                                                                                                                                                                                                                                                     | T      | 0.60±0.10      |
|                                                                                                                                                                                                                                                                                                                                                                                                     | A      | 0.70±0.10      |
|                                                                                                                                                                                                                                                                                                                                                                                                     | B      | 0.30±0.10      |
|                                                                                                                                                                                                                                                                                                                                                                                                     | C      | 0.25±0.10      |
|                                                                                                                                                                                                                                                                                                                                                                                                     | D      | 0.4±0.10       |

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



### Solder Reflow Standard Conditioning



### Storage Conditions

Temperature : +5 to +30 °C

Humidity : 20 to 70% RH

Term of storage : Within 12 months (After the delivery) \*

Baking : Unnecessary

\* After peeling off cover tape, do not keep exposing the products to the open air. For the products stored longer than 12 months, confirm their terminals and solderability before use.