

**Features:**

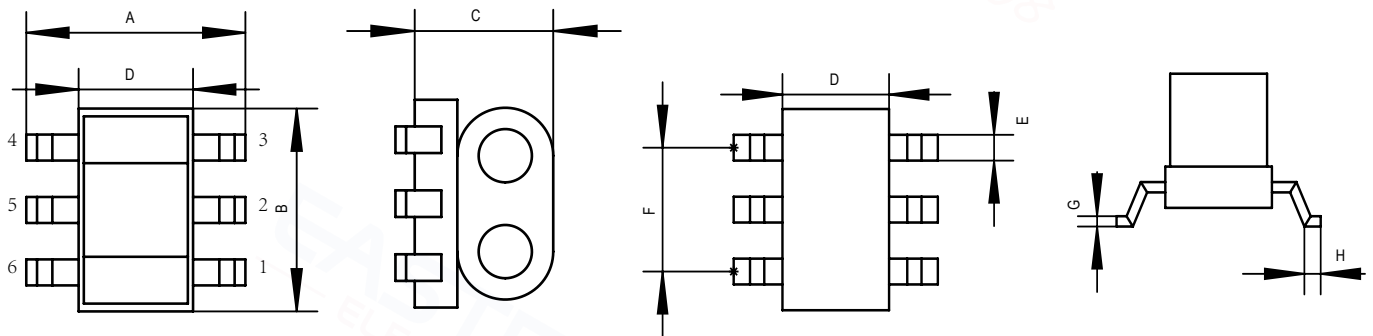
- ◆ Equivalent to: B4538311
- ◆ 75Ω Characteristic Impedance
- ◆ Frequency: 5 to 1000 MHz
- ◆ Power Input (as a splitter): 0.30W Max
- ◆ DC current: 30mA
- ◆ Operating temperature range: -40°C to +85°C
- ◆ Storage temperature range: -55°C to +100°C



**Applications:**

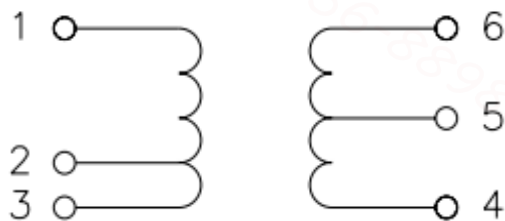
- ◆ For broadband and wireless communications
- ◆ For VHF/UHF receivers/transmitters and push-pull amplifiers

**Dimension Diagram (Unit:mm) :**

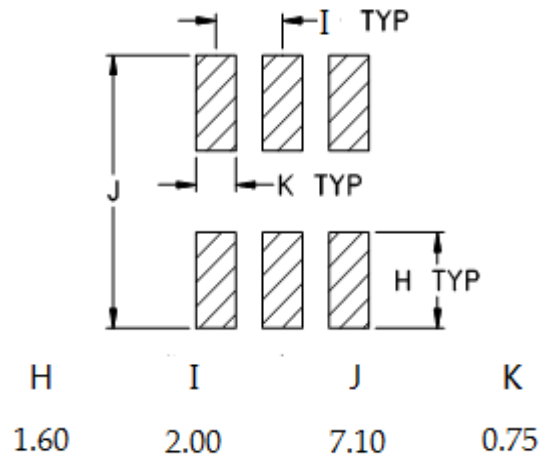


A=6.20±0.20 B=6.00±0.20 C=4.30±0.20 D=4.00±0.20 E=0.6±0.10 F=4.00±0.10 G=0.25±0.10 H=0.50±0.10

**Electrical structure:**



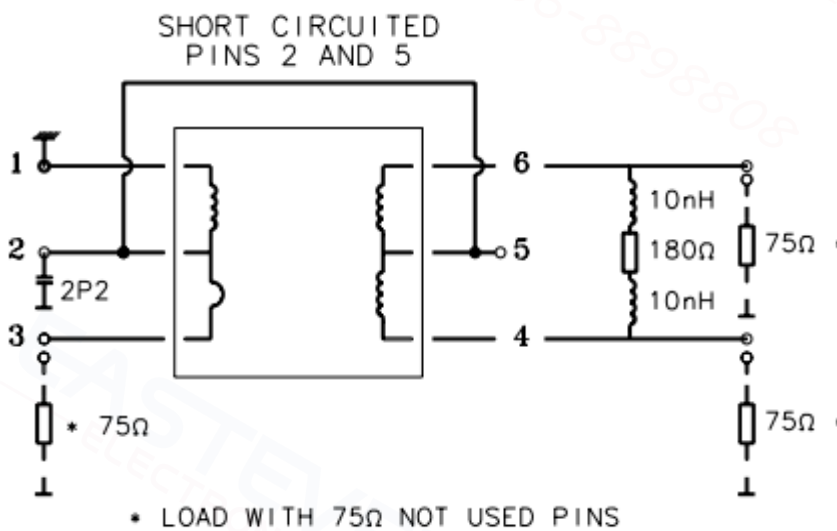
**Recommended layout:**



## Pin configuration:

|                              |               |
|------------------------------|---------------|
| SUM PORT                     | 3             |
| PORT 1                       | 4             |
| PORT 2                       | 6             |
| GROUND                       | 1             |
| CONNECT                      | 2,5           |
| EXT. RESISTOR 10nH-180Ω-10nH | 3,4           |
| EXT. CAPACITOR 2.2PF         | 2 OR 5 TO GND |

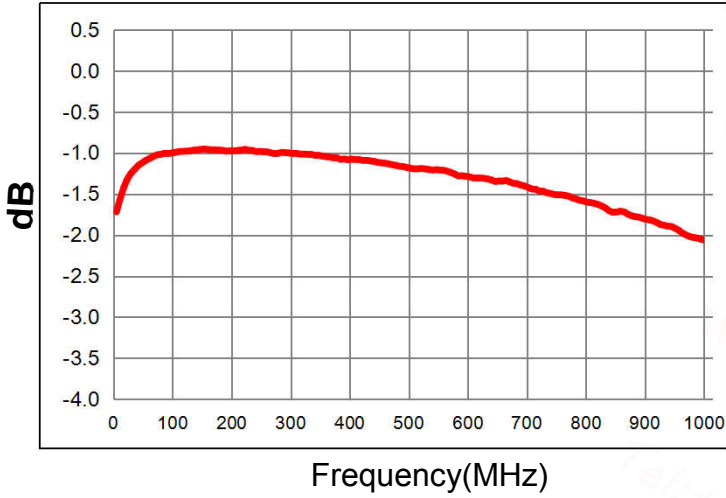
## Application circuit :



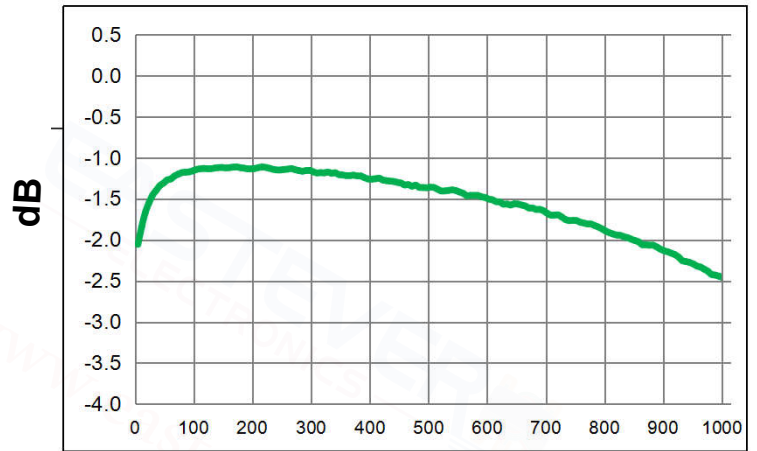
## Electrical Specifications: TA=25°C , 0dBm,Z0=75Ω:

| Parameter            | Test Conditions | Units | Min | Typ  | Max |
|----------------------|-----------------|-------|-----|------|-----|
| Main line Loss(out1) | 5-1000MHz       | dB    | —   | 1.0  | 2.5 |
| Main line Loss(out2) | 5-1000MHz       | dB    | —   | 1.3  | 3.0 |
| Input Return Loss    | 5-1000MHz       | dB    | 5.0 | 15.0 | —   |
| Output1 Return Loss  | 5-1000MHz       | dB    | 5.0 | 20.0 | —   |
| Output2 Return Loss  | 5-1000MHz       | dB    | 5.0 | 20.0 | —   |
| Isolation            | 5-1000MHz       | dB    | 8.0 | 25.0 | —   |

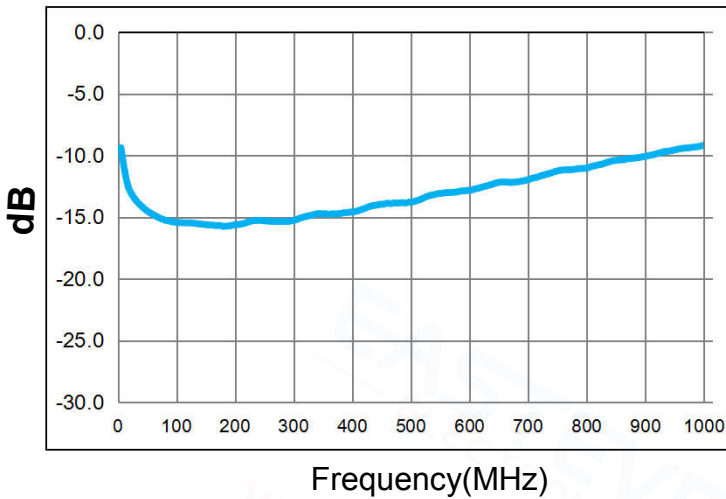
### Main line Loss(port1)



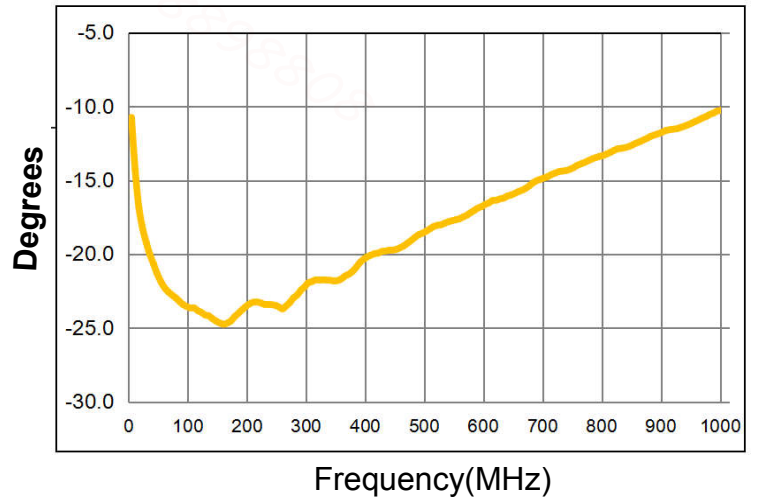
### Main line Loss(port2)



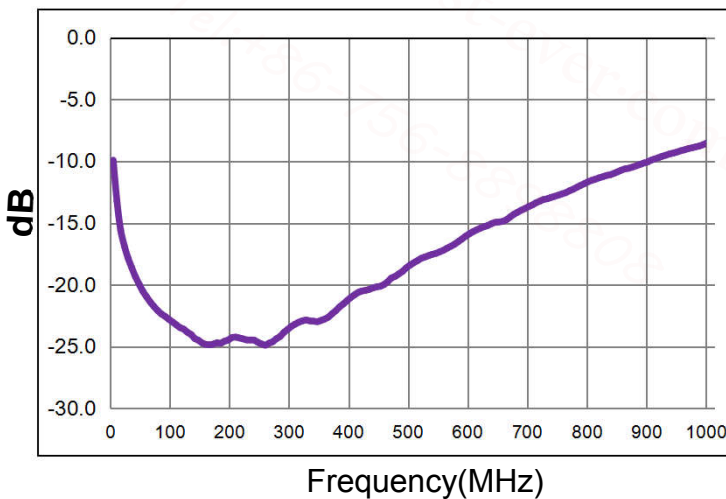
### Input Return Loss (S11)



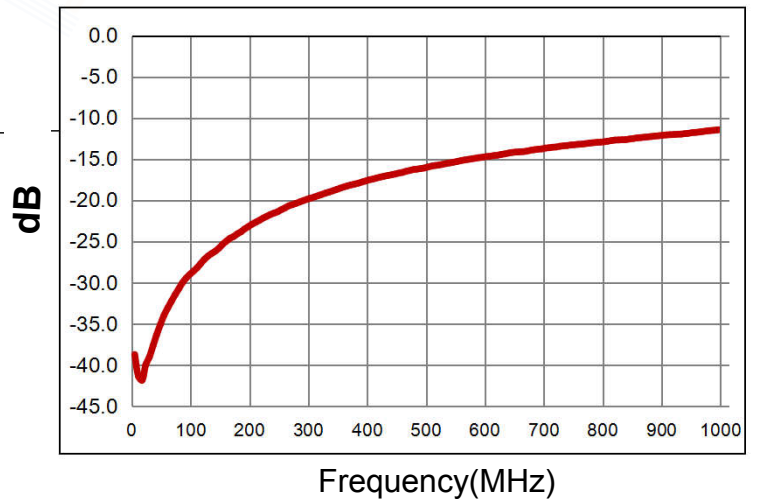
### Output 1 Return Loss (S22)



### Output 2 Return Loss (S33)

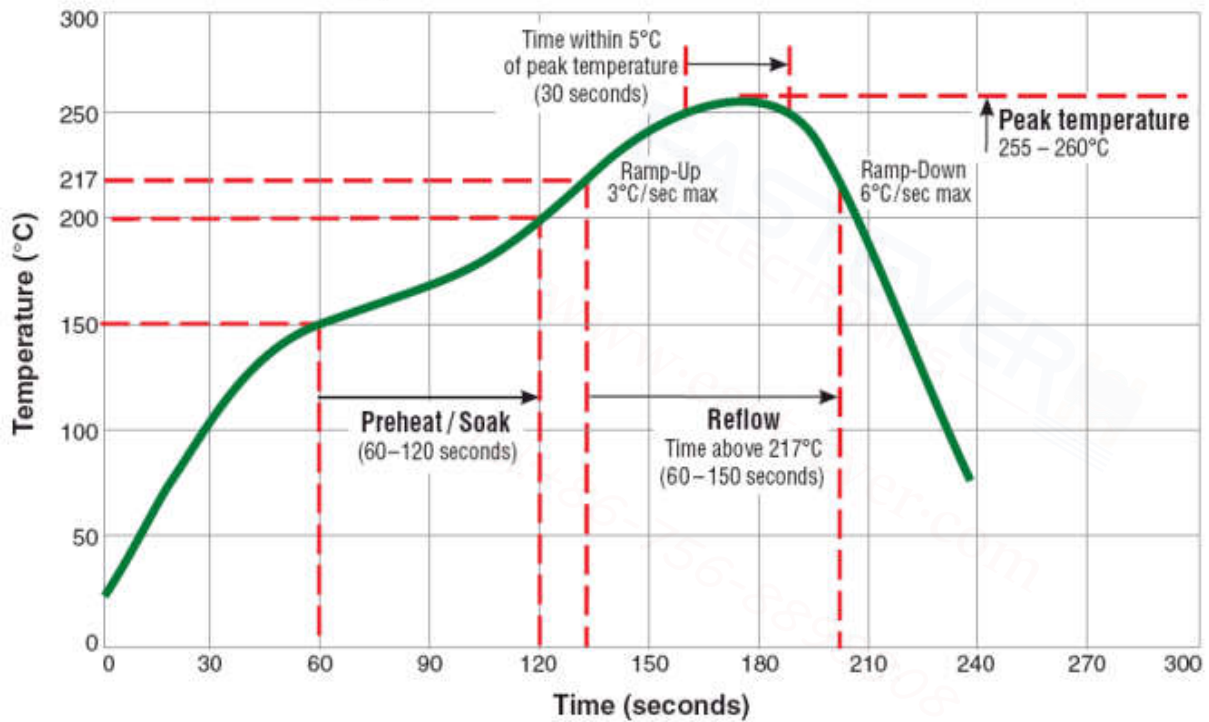


### Isolation

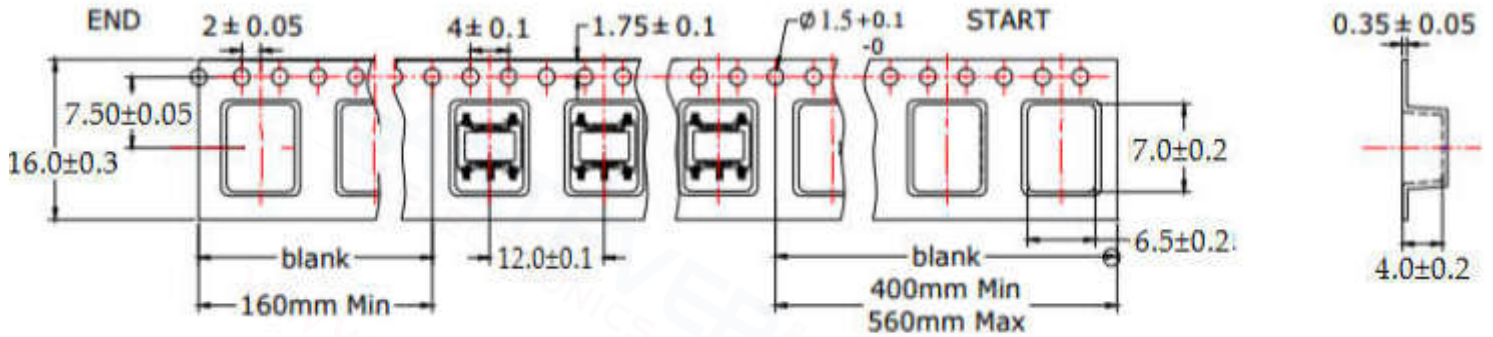


Recommended Soldering Temperature Graph:

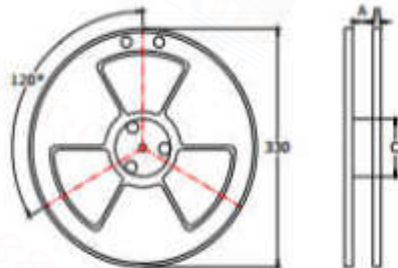
Typical RoHS Reflow Profile



Packing Dimension For Caeier Tape(UNIT:mm):



|                                     |
|-------------------------------------|
| <b>QUANTITY</b>                     |
| 1000PCS/Reel                        |
| 3Reels/Middle Carton Middle Carton: |
| 4 Middle Cartons/Big Carton         |
| 12000PCS/ Big Carton                |



|           |     |      |      |      |
|-----------|-----|------|------|------|
| SPEC      | 8   | 12   | 16   | 24   |
| DIM A±0.1 | 8.5 | 12.5 | 16.5 | 24.5 |
| DIM B±0.1 | 2.3 | 2.3  | 2.3  | 2.3  |
| DIM C±0.1 | 100 | 100  | 100  | 100  |

