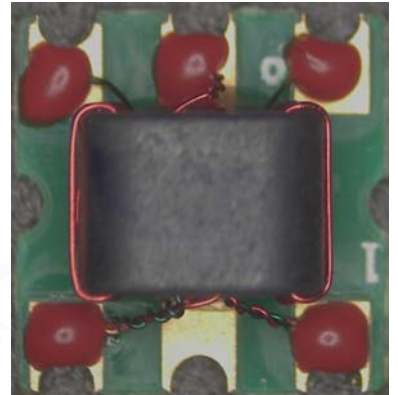


Features:

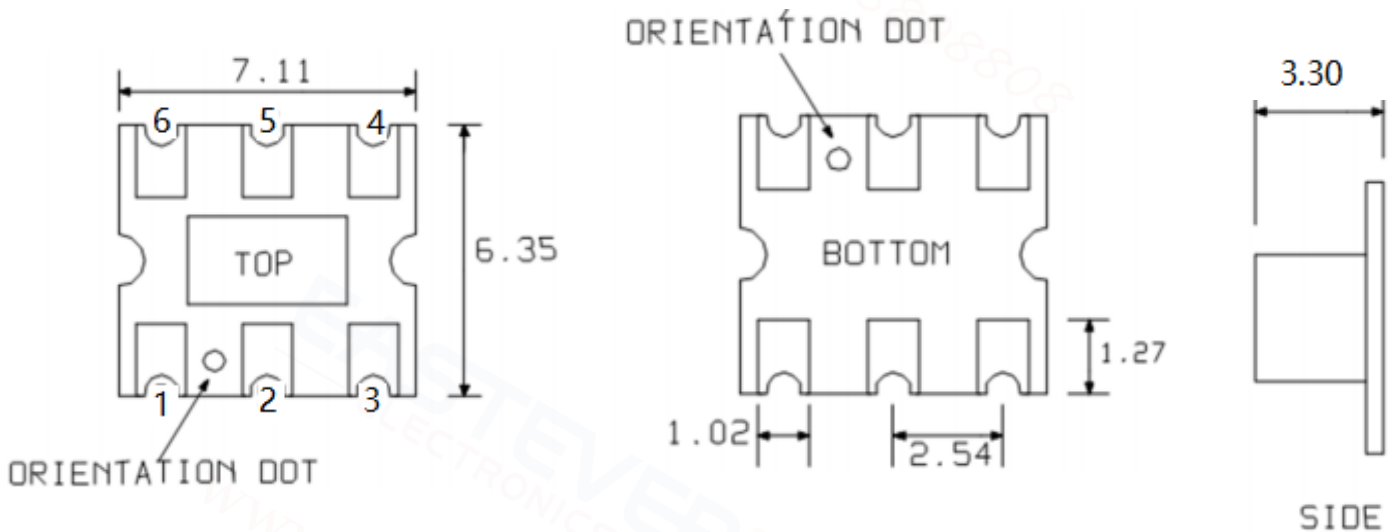
- ◆ Equivalent to:MACP-011014
- ◆ Surface mount and available in tape and reel
- ◆ 260°C reflow compatible
- ◆ RoHS Compliant and Pb free
- ◆ Operating temperature range: -40°C to +85°C
- ◆ Storage temperature range: -55°C to +100°C



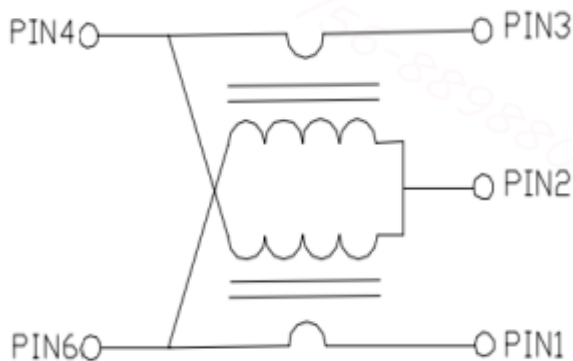
Applications:

- ◆ For catv
- ◆ For broadband and wireless communications

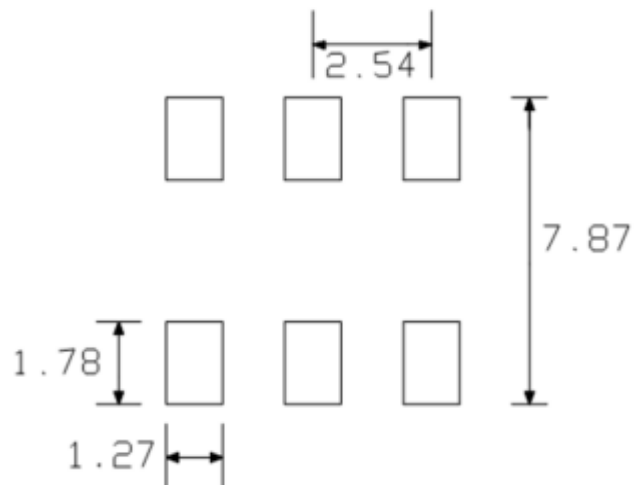
Dimension diagram (Unit:mm) :



Electrical structure:



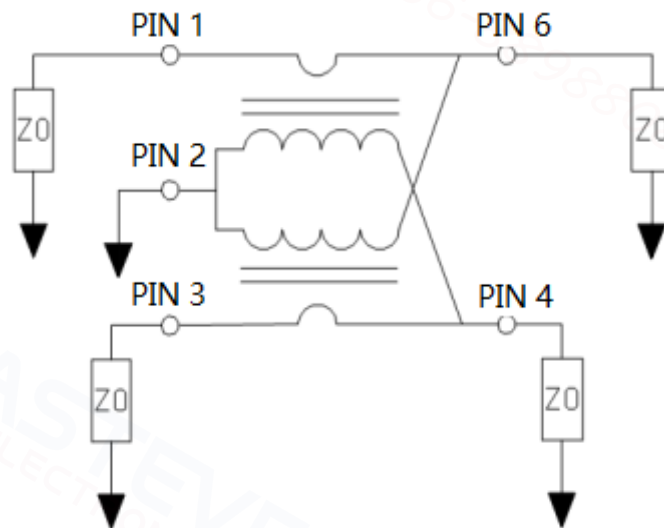
Recommended layout(mm):



Pin configuration:

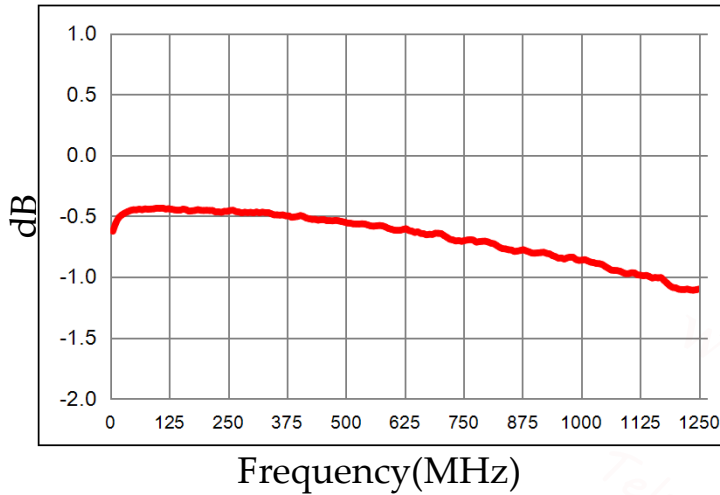
| Pin no. | Function |
|---------|----------|
| 1 | Input |
| 2 | Ground |
| 3 | Coupled |
| 4 | Isolated |
| 6 | Output |

Application circuit :

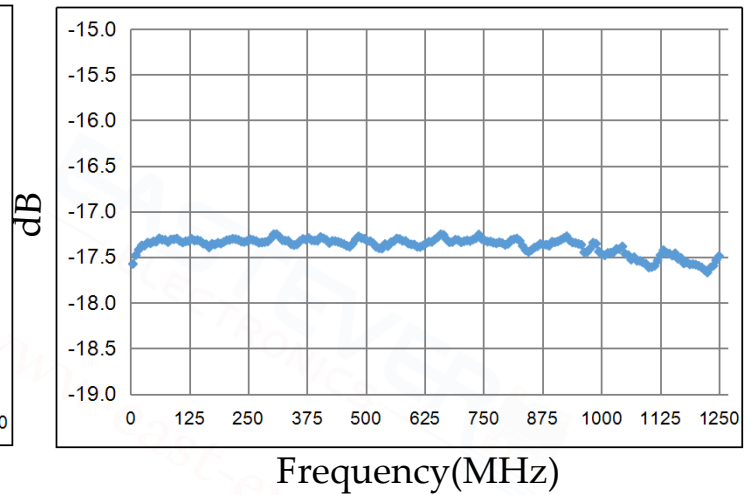
Electrical Specifications: $T_A=25^\circ\text{C}$ $Z_0=75\Omega$

| Parameter | Test Conditions | Units | Min | Typ | Max |
|----------------------|-----------------|-------|------|------|------|
| Main line Loss | 5-1250MHz | dB | — | 0.5 | 1.5 |
| Coupling | 5-1250MHz | dB | 16.3 | 17.3 | 18.3 |
| Input Return Loss | 5-1250MHz | dB | 18.0 | 30.0 | — |
| Output Return Loss | 5-1250MHz | dB | 16.0 | 25.0 | — |
| Coupling Return Loss | 5-1250MHz | dB | 18.0 | 25.0 | — |
| Isolation | 5-1250MHz | dB | 30.0 | 45.0 | — |

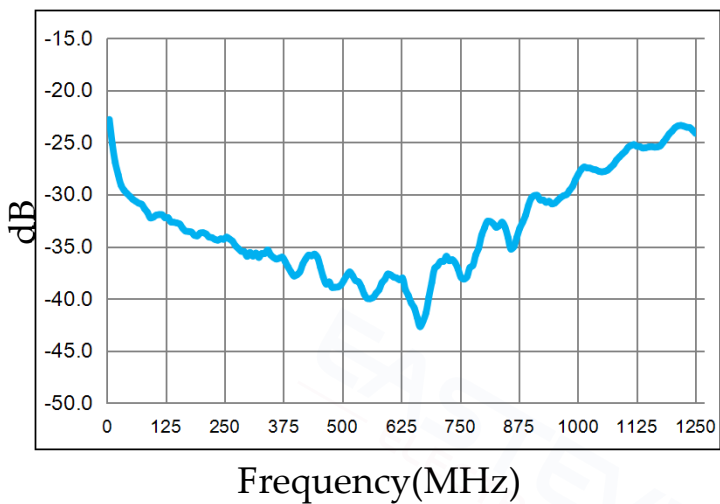
Main line Loss(pin1-6):



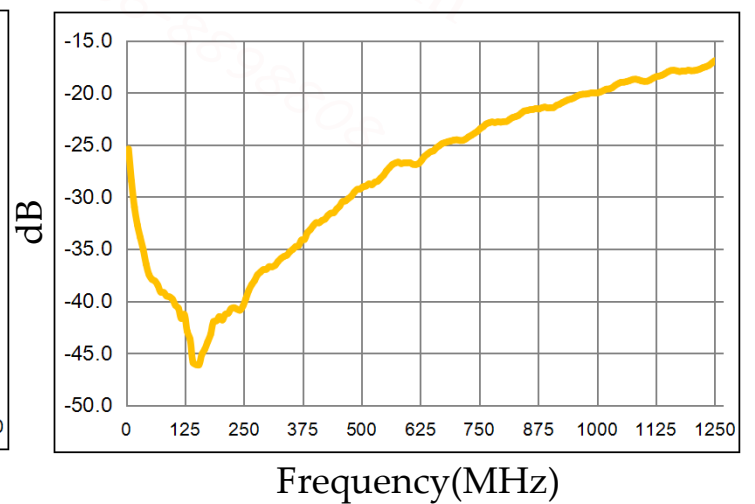
Coupling(pin1-3):



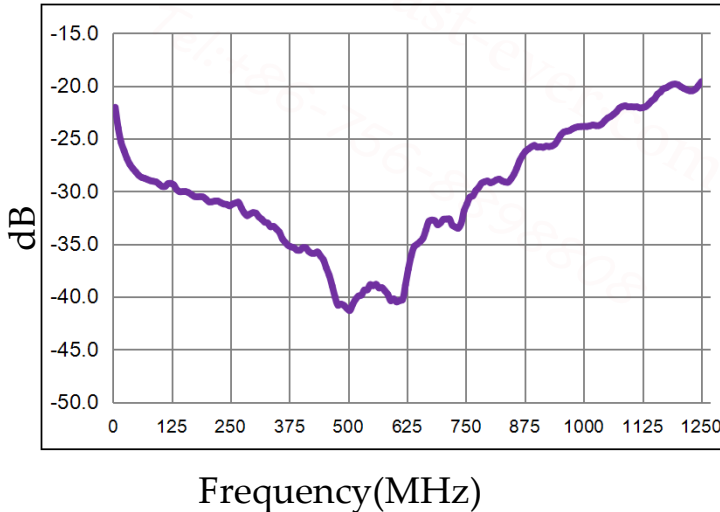
Input Return Loss (Pin1)



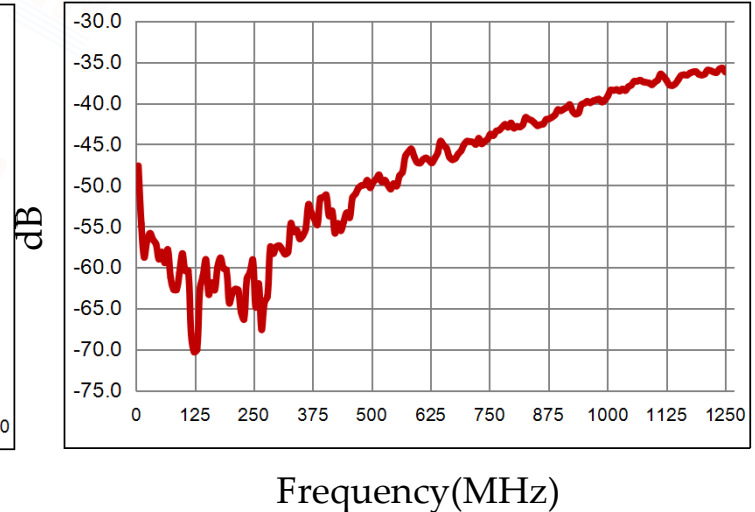
Output Return Loss (Pin6)



Coupling Return Loss (Pin6)

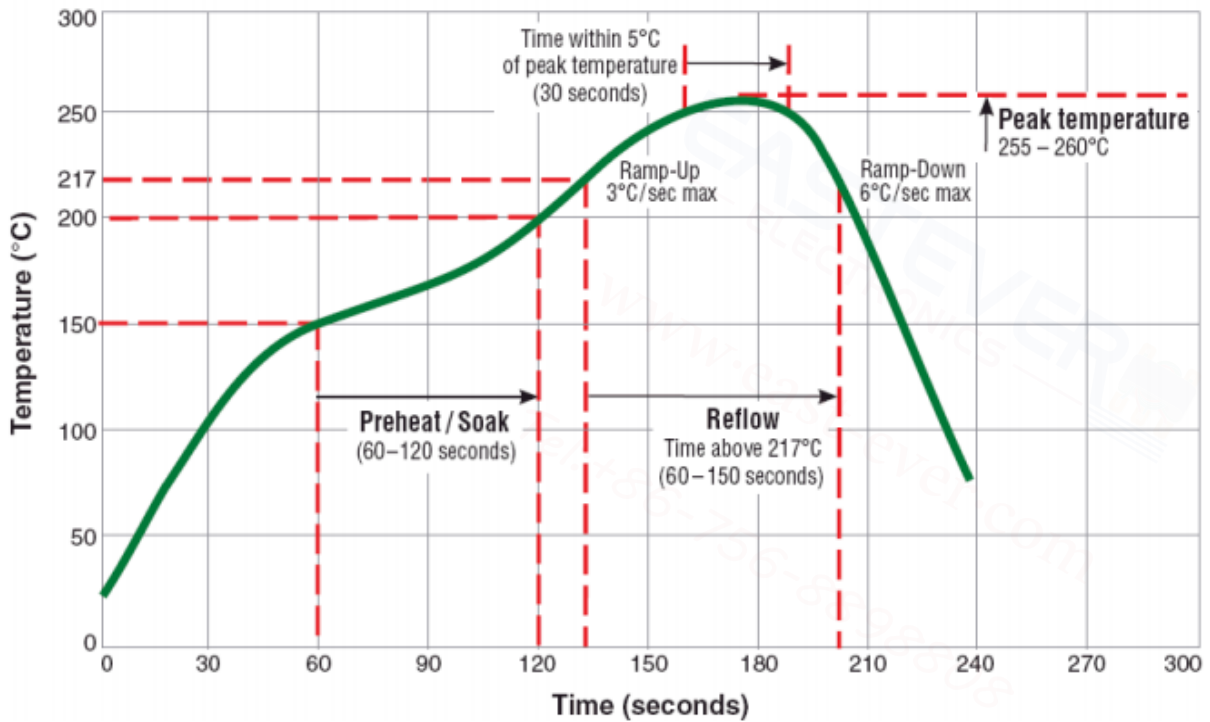


Isolation (Pin1-4)

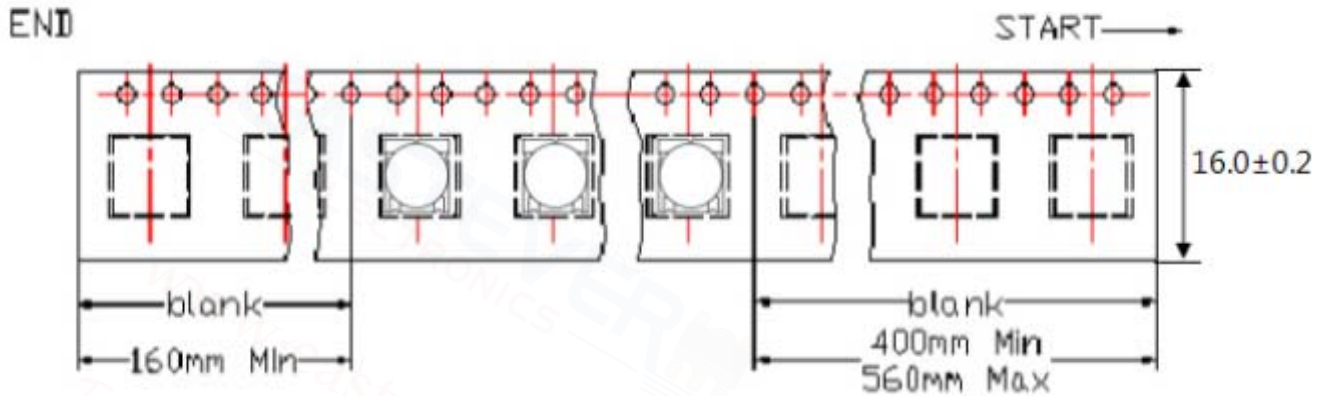


Recommended Soldering Temperature Graph:

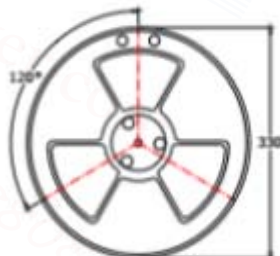
Typical RoHS Reflow Profile



Packing Dimension For Caeier Tape(UNIT:mm):



| |
|-------------------------------------|
| QUANTITY |
| 1500PCS/Reel |
| 3Reels/Middle Carton Middle Carton: |
| 4 Middle Cartons/Big Carton |
| 18000PCS/ 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 |

