



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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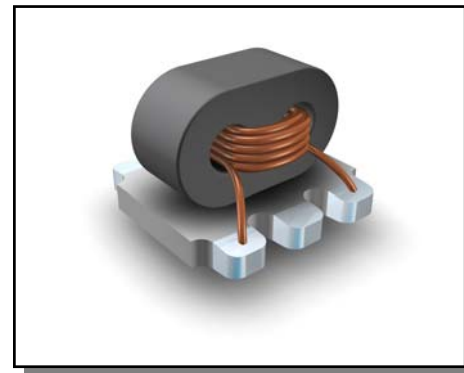
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Features

- ◆ 1:1 impedance ratio
- ◆ Surface mount
- ◆ Available on tape and reel
- ◆ 260°C reflow compatible
- ◆ RoHS Compliant and Pb free
- ◆ Excellent temperature stability
- ◆ Can be used on 50Ω and 75Ω systems
- ◆ RoHS version of ETC1-1T and MABACT0012



Electrical Specifications: $T_A = 25^\circ\text{C}$, $Z_0 = 50\Omega$, $P_{in} = 0\text{dBm}$

| Parameter | Frequency | Units | Min | Typ | Max |
|---------------------------------|---------------|-------|-----|------|-----------|
| Insertion Loss | 3 - 50 MHz | dB | - | 0.2 | 0.5 |
| | 50 - 160 MHz | dB | - | 0.5 | 1.0 |
| | 160 - 200 MHz | dB | - | 0.8 | 1.2 |
| Amplitude Balance (Nominal 0dB) | 3 - 50 MHz | dB | - | 0.02 | ± 0.1 |
| | 50 - 200 MHz | dB | - | 0.06 | ± 0.5 |
| Phase Balance (Nominal 180°) | 3 - 50 MHz | ° | - | 0.2 | ± 1.5 |
| | 50 - 200 MHz | ° | - | 0.5 | ± 5.0 |
| Input Return Loss | 3 - 200 MHz | dB | 10 | 20 | - |
| | 5 - 100 MHz | dB | 15 | 25 | - |

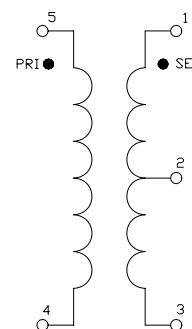
Electrical Specifications: $T_A = 25^\circ\text{C}$, $Z_0 = 75\Omega$, $P_{in} = 0\text{dBm}$

| Parameter | Frequency | Units | Min | Typ | Max |
|---------------------------------|---------------|-------|-----|------|-----------|
| Insertion Loss | 3 - 5 MHz | dB | - | 0.5 | 1.0 |
| | 5 - 65 MHz | dB | - | 0.4 | 0.6 |
| | 65 - 200 MHz | dB | - | 0.6 | 1.0 |
| Amplitude Balance (Nominal 0dB) | 3 - 65 MHz | dB | - | 0.02 | ± 0.2 |
| | 65 - 200 MHz | dB | - | 0.04 | ± 0.3 |
| Phase Balance (Nominal 180°) | 3 - 65 MHz | ° | - | 0.4 | ± 2.0 |
| | 65 - 200 MHz | ° | - | 1.2 | ± 5.0 |
| Input Return Loss | 3 - 5MHz | dB | 18 | 24 | - |
| | 5 - 65 MHz | dB | 21 | 29 | - |
| | 65 - 100 MHz | dB | 19 | 25 | - |
| | 100 - 200 MHz | dB | 14 | 20 | - |

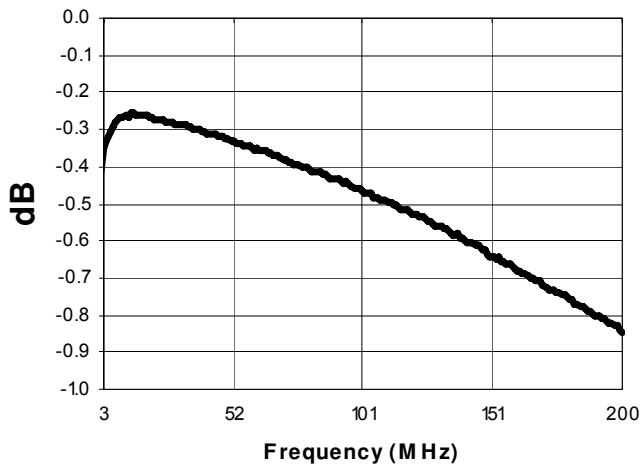
Pin Configuration

| Pin No. | Function |
|---------|----------------------|
| 1 | Secondary Dot |
| 2 | Secondary Center Tap |
| 3 | Secondary |
| 4 | Primary |
| 5 | Primary Dot |

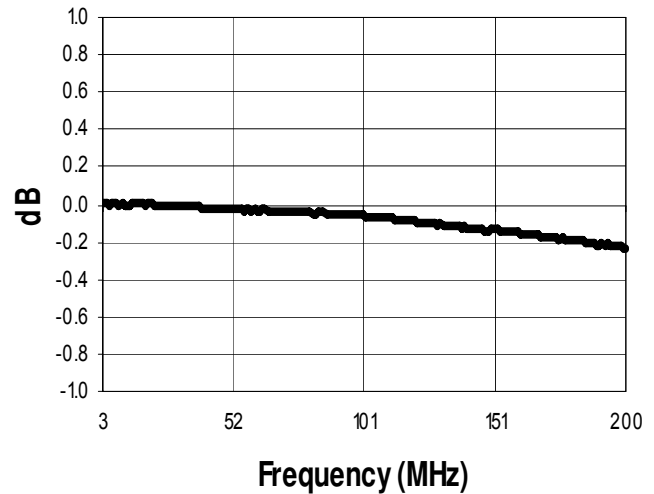
Schematic



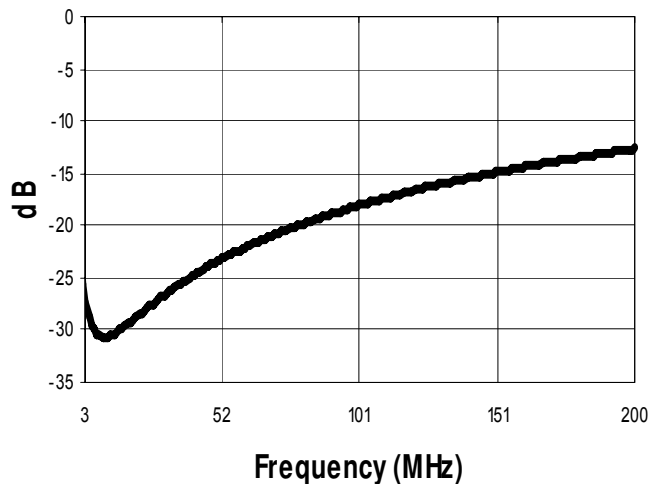
Insertion Loss



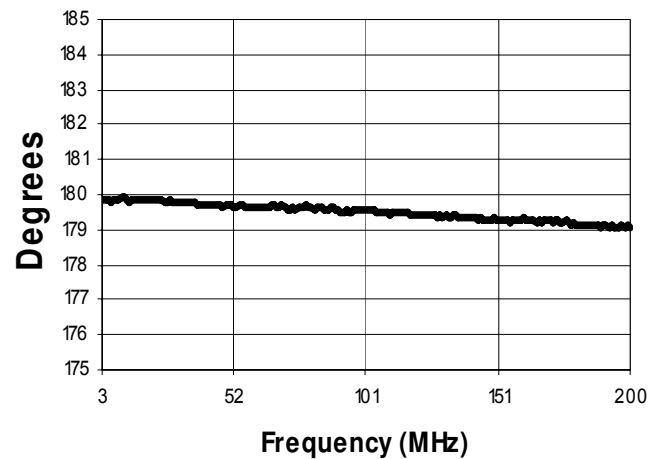
Amplitude Balance



Input Return Loss

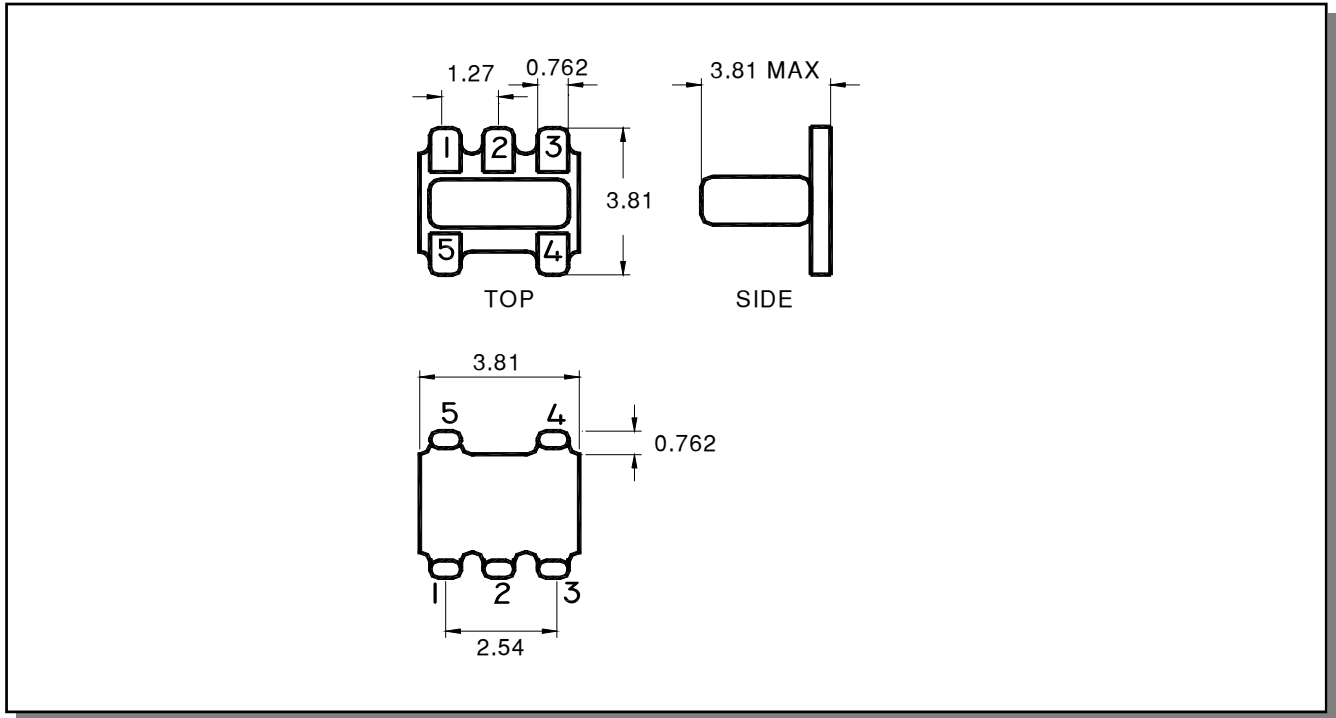


Phase Balance



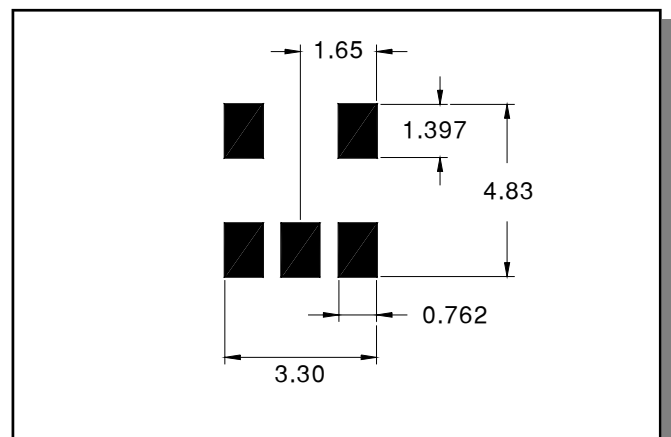
Electrical Specifications: $Z_0 = 50\Omega$, $T_A = 25^\circ\text{C}$, $P_{in} = 0\text{dBm}$

Outline Drawing



1. Dimensions in mm.
2. Tolerance: $\pm 0.2\text{mm}$ unless otherwise noted.
3. Model number and lot code are printed on the reel.

Recommended Footprint



Tape & Reel Information

| Parameter | Units | Value |
|--|-------|-------|
| Qty per reel | - | 2000 |
| Reel Size | mm | 330 |
| Tape Width | mm | 12.00 |
| Pitch | mm | 8.00 |
| Ao | mm | 4.00 |
| Bo | mm | 4.00 |
| Ko | mm | 2.90 |
| Orientation | - | F5 |
| Reference Application Note ANI-019 for orientation | | |

Ordering Information

| Part Number | Description |
|--------------------|---------------------------|
| MABA CT0062 | Tape & Reel |
| MABA-008115-CT62TB | Customer Evaluation Board |

Recommended Maximum Ratings

| Parameter | Units | Min | Max |
|-----------------------------|-------|-----|------|
| Input Power | mW | | 250 |
| DC Current | mA | | 200 |
| Operating Temperature Range | °C | -40 | +85 |
| Storage Temperature Range | °C | -55 | +125 |

ECO History

| Rev | Date | Description | By |
|-----|-------------|--|-----|
| V4 | 10 May 2010 | Corrected the case style drawing and changed to the new format | MOC |
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