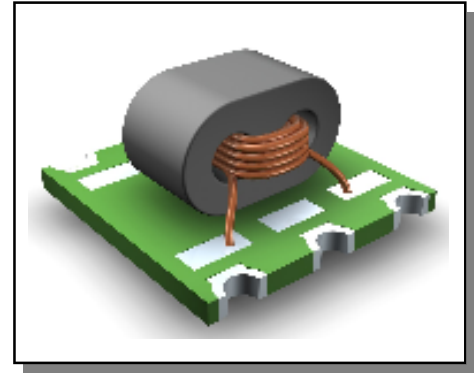


Features

- ◆ Surface mount
- ◆ 1:1 Impedance
- ◆ 260°C reflow compatible
- ◆ RoHS Compliant
- ◆ Centre tap on secondary



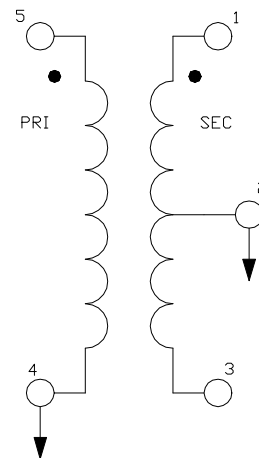
Electrical Specifications: $Z_0 = 75\Omega$, $T_A = 25^\circ\text{C}$

| Parameter | Conditions | Units | Min | Typ | Max |
|-----------------------------------|---------------|-------|-----|-----------|-----------|
| Insertion Loss 1 (Pin 1-5) | 0.3 - 5 MHz | dB | - | 1.0 | 2.6 |
| | 5 - 200 MHz | dB | - | 0.5 | 0.9 |
| Insertion Loss 2 (Pin 3-5) | 0.3 - 10 MHz | dB | - | 1.0 | 2.6 |
| | 10 - 200 MHz | dB | - | 0.4 | 0.75 |
| Amplitude Unbalance (Nominal 0dB) | 0.3 - 200 MHz | dB | - | ± 0.1 | ± 0.3 |
| Phase Unbalance (Nominal 180°) | 0.3 - 200 MHz | ° | - | ± 0.3 | ± 3.0 |
| Input Return Loss | 0.3 - 5 MHz | dB | 5 | 13 | - |
| | 5 - 120 MHz | dB | 19 | 27 | - |
| | 120 - 200 MHz | dB | 15 | 21 | - |

Pin Configuration

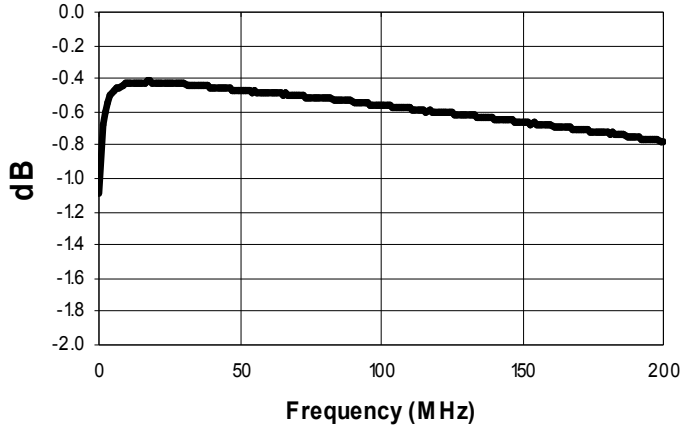
| Pin No. | Function |
|---------|----------------------|
| 1 | Secondary Dot |
| 2 | Secondary centre tap |
| 3 | Secondary |
| 4 | Primary |
| 5 | Primary Dot |

Schematic

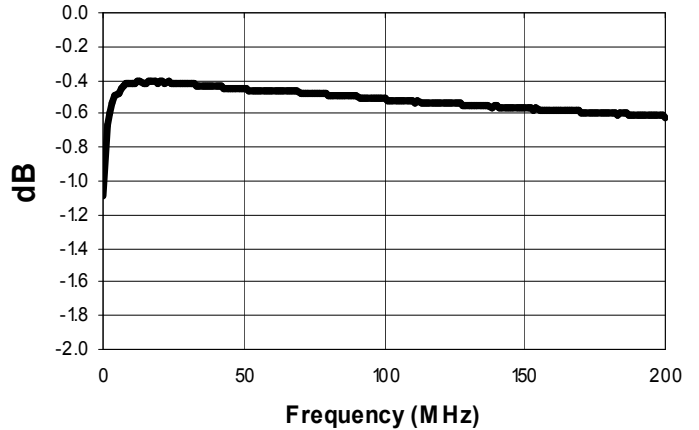


Typical Performance Curves: $T_A = 25^\circ\text{C}$, $Z_0 = 75\Omega$ ¹

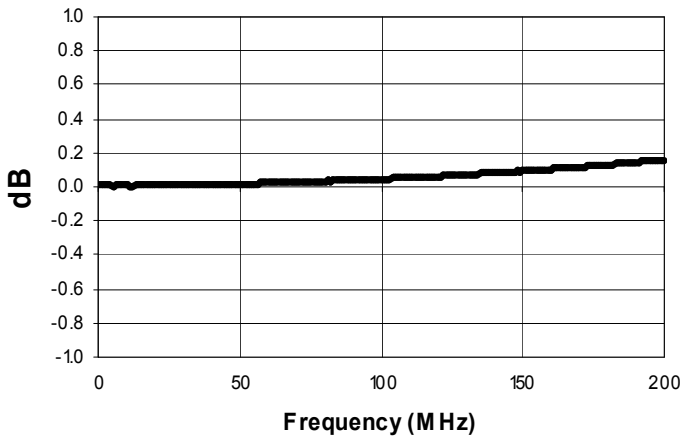
Insertion Loss 1: (Pin 5 to 1)



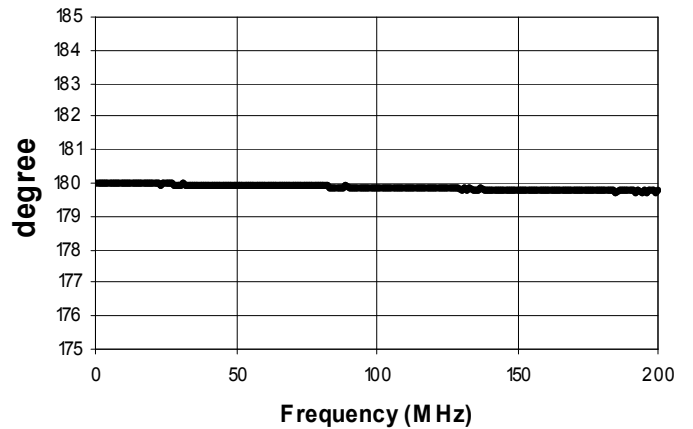
Insertion Loss 2: (Pin 5 to 3)



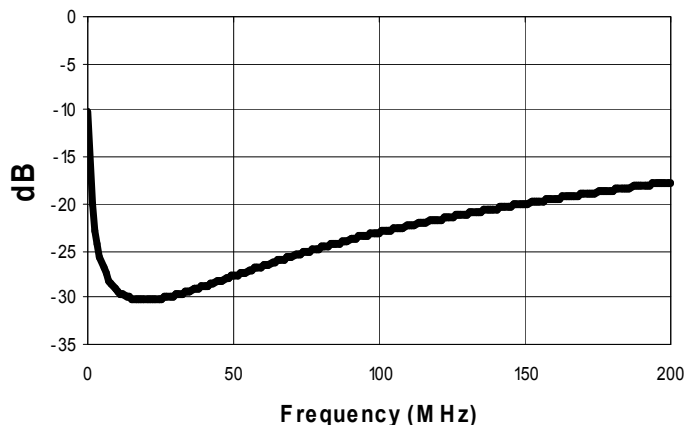
Amplitude Unbalance



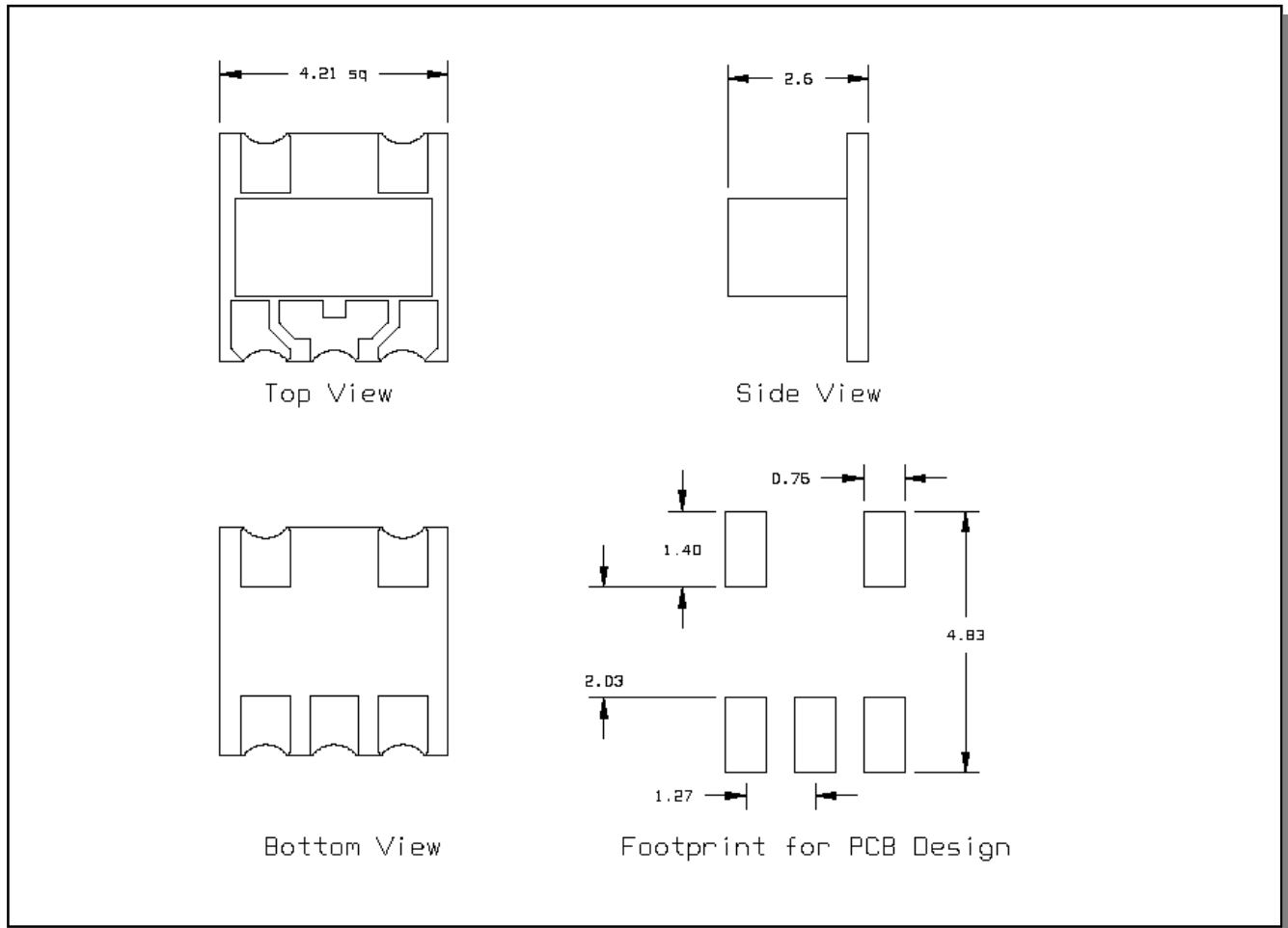
Phase Balance



Input Return Loss



Outline Drawing



1. Dimensions in mm.
2. Tolerance: ± 0.2 mm unless otherwise noted.
3. Model number and lot code are printed on the reel.
4. Finish: Electroless nickel immersion gold

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 | 4.5 |
| Bo | mm | 4.5 |
| Ko | mm | 2.73 |
| Orientation | - | F5 |
| Reference Application Note ANI-019 for orientation | | |

Ordering Information

| Part Number | Description |
|--------------------|---------------------------|
| MABA-010544-CT0071 | Tape & Reel |
| MABA-008350-CT71TB | Customer Evaluation Board |

Recommended Maximum Ratings

| Parameter | Units | Min | Max |
|-----------------------------|-------|-----|------|
| Input Power | mW | | 250 |
| DC Current | mA | | 240 |
| Operating Temperature Range | °C | -40 | +85 |
| Storage Temperature Range | °C | -55 | +125 |

Full temperature plots available on request

ECO History

| Rev | Date | Description | ECN NO. |
|-----|--------------|-------------|----------|
| V1 | 30 Sep, 2010 | New Release | 20101528 |
| | | | |
| | | | |
| | | | |