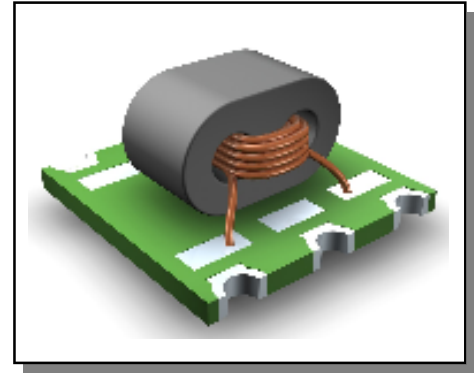


## Features

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



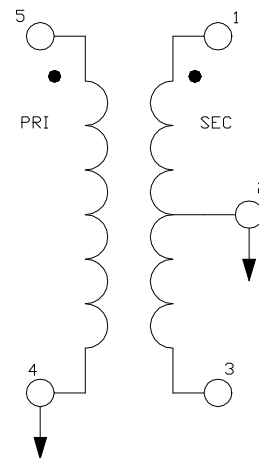
## Electrical Specifications: $Z_0 = 75\Omega$ , $T_A = 25^\circ\text{C}$

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	-	$\pm 0.1$	$\pm 0.3$
Phase Unbalance (Nominal 180°)	0.3 - 200 MHz	°	-	$\pm 0.3$	$\pm 3.0$
Input Return Loss	0.3 - 5 MHz	dB	5	13	-
	5 - 120 MHz	dB	19	27	-
	120 - 200 MHz	dB	15	21	-

## Pin Configuration

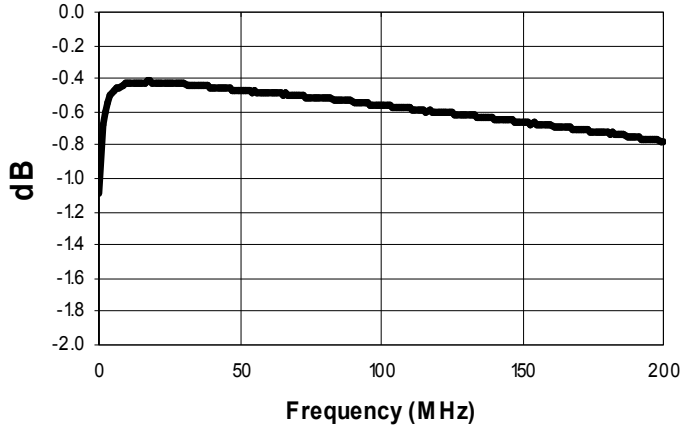
Pin No.	Function
1	Secondary Dot
2	Secondary centre tap
3	Secondary
4	Primary
5	Primary Dot

## Schematic

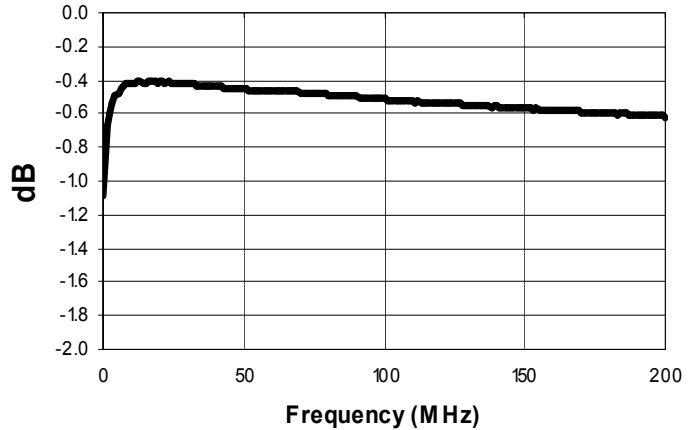


Typical Performance Curves:  $T_A = 25^\circ\text{C}$ ,  $Z_0 = 75\Omega$  <sup>1</sup>

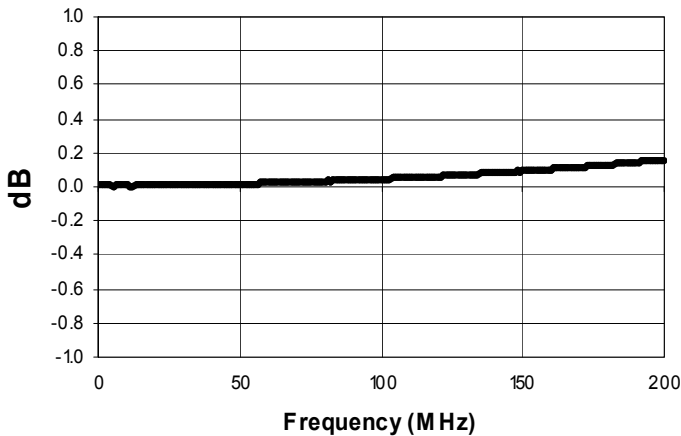
Insertion Loss 1: (Pin 5 to 1)



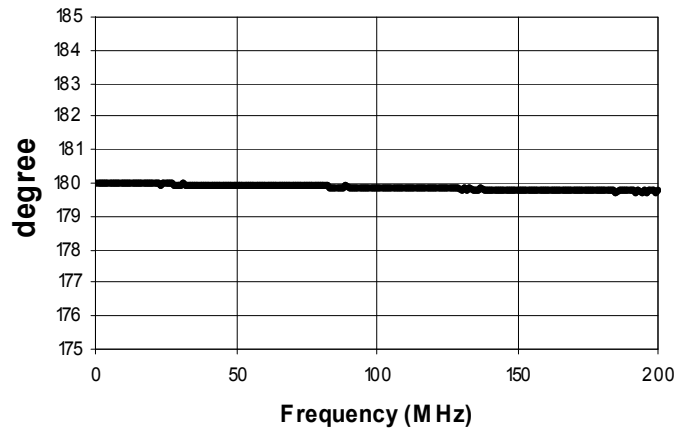
Insertion Loss 2: (Pin 5 to 3)



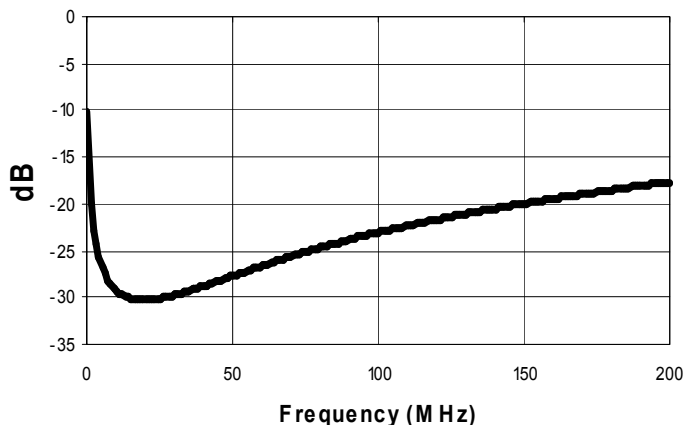
Amplitude Unbalance



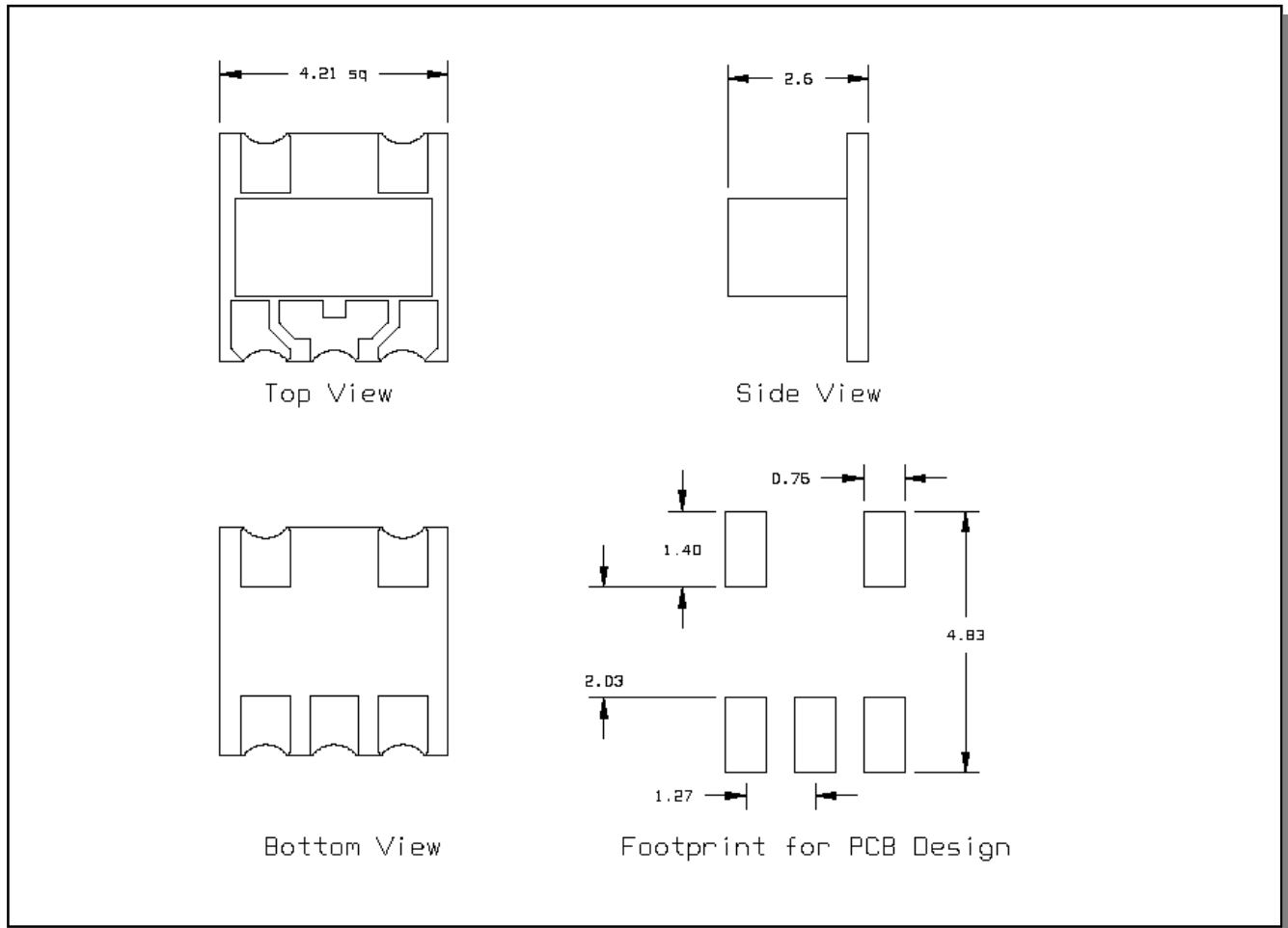
Phase Balance



Input Return Loss



## Outline Drawing



1. Dimensions in mm.
2. Tolerance:  $\pm 0.2$ 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