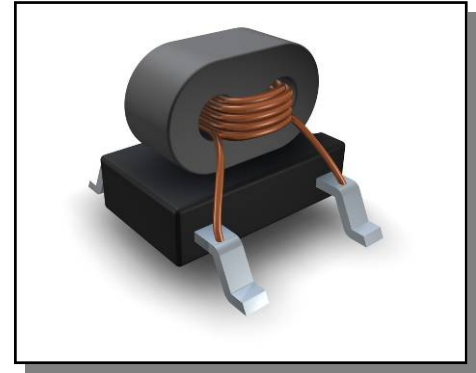


## Features

- ◆ 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
- ◆ Suitable for all CATV, Broadband and FTTx applications.



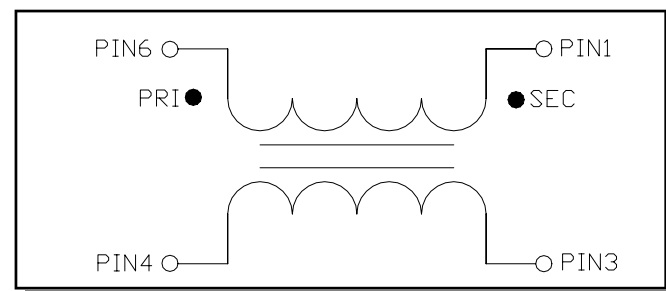
## Electrical Specifications: $Z_0 = 50\Omega$ , $T_A = 25^\circ\text{C}$ , $P_{in} = 0\text{dBm}$

Parameter	Conditions	Units	Min	Typ	Max
Frequency Range		MHz	5		1200
Impedance		$\Omega$		50	
Impedance Ratio				1:1	
Insertion Loss 1 Pin4 - Pin1	5 - 870 MHz	dB	-	-0.4	-0.7
	870 - 1000 MHz	dB	-	-0.7	-1.1
	1000 - 1200 MHz	dB	-	-1.5	-2.6
Insertion Loss 2 Pin4 - Pin3	5 - 870 MHz	dB	-	-0.9	-1.2
	870 - 1000 MHz	dB	-	-1.2	-1.6
	1000 - 1200 MHz	dB	-	-2.1	-3.0
Phase Balance	5 - 1000 MHz	Degree	-	2.0	$\pm 4$
	1000 - 1200 MHz		-	-6.0	$\pm 12$
Input Return Loss Pin 4	5 - 300 MHz	dB	-15	17	-
	300 - 800 MHz	dB	-10	-12	-
	800 - 1200 MHz	dB	-5	-8	-

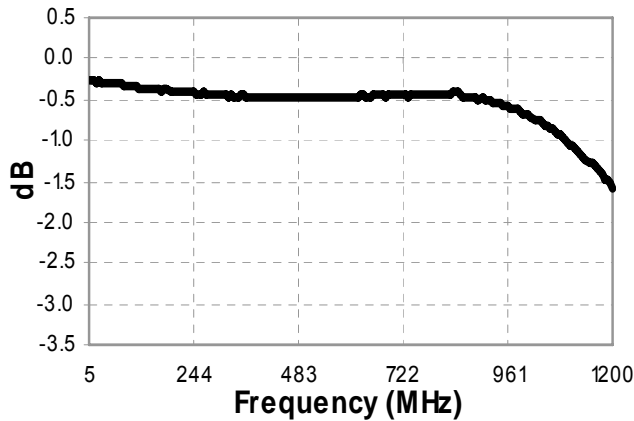
## Pin Configuration

Pin No.	Function
1	Secondary Dot
2	Not Connected
3	Secondary
4	Primary
6	Primary Dot

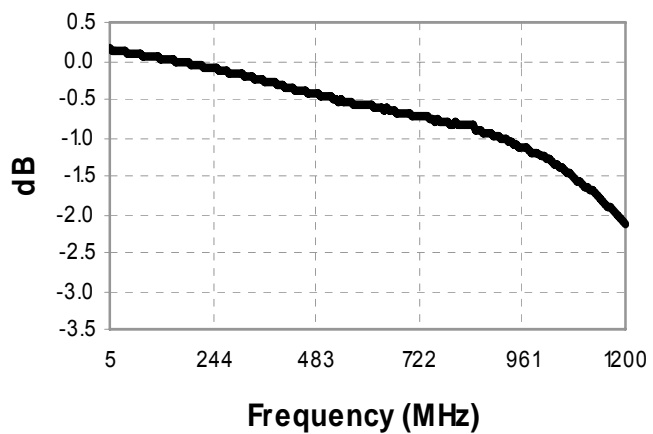
## Schematic



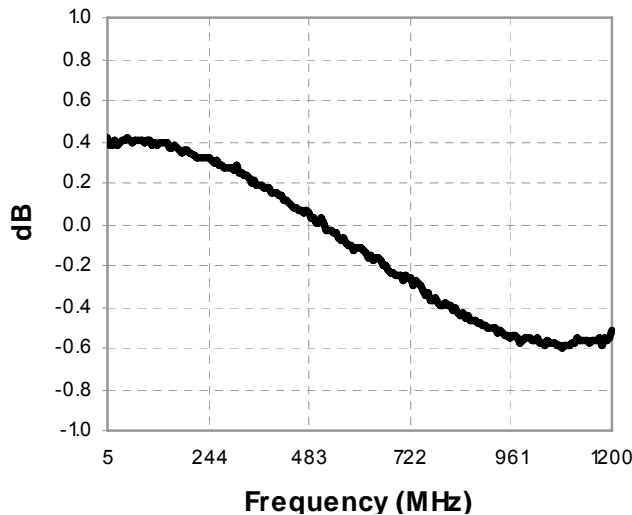
### Insertion Loss 1: Pin4 - Pin1



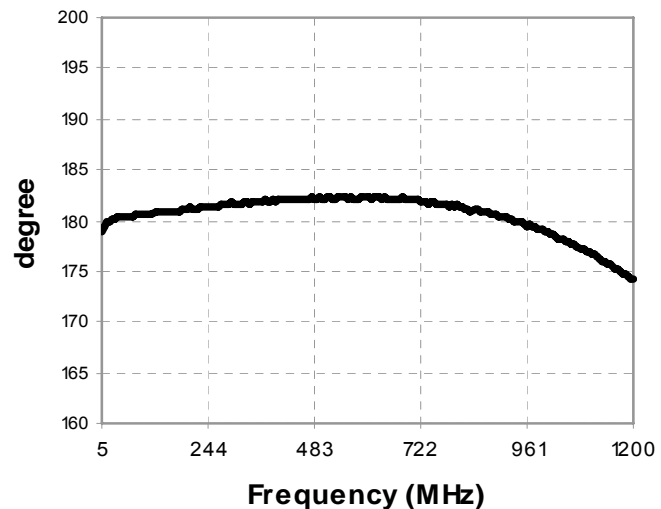
### Insertion Loss 2: Pin4 - Pin3



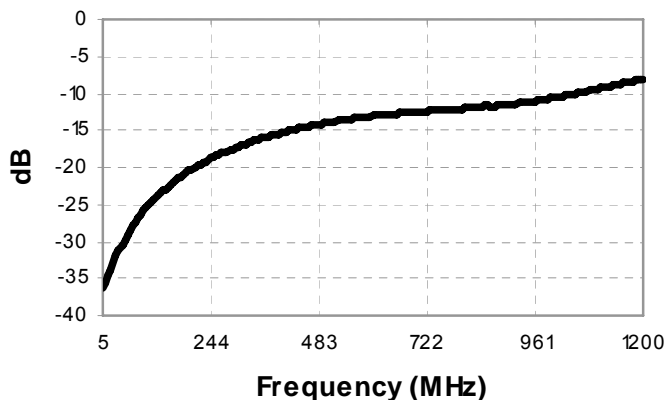
### Amplitude Balance:



### Phase Balance:

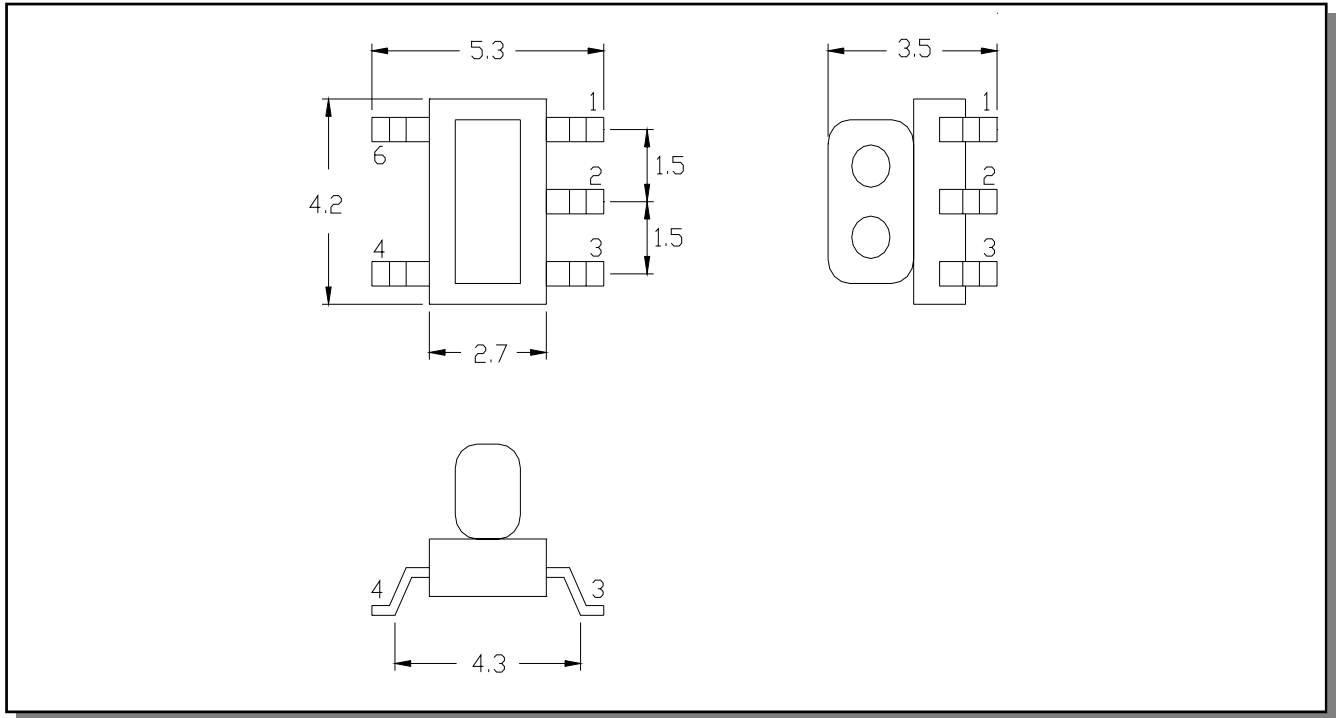


### Input Return Loss: Pin4



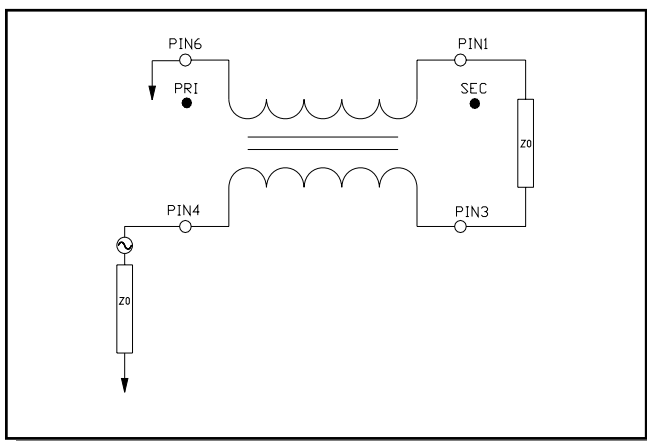
Electrical Specifications:  $Z_0 = 50\Omega$ ,  $T_A = 25^\circ\text{C}$ ,  $P_{in} = 0\text{dBm}$

## Outline Drawing

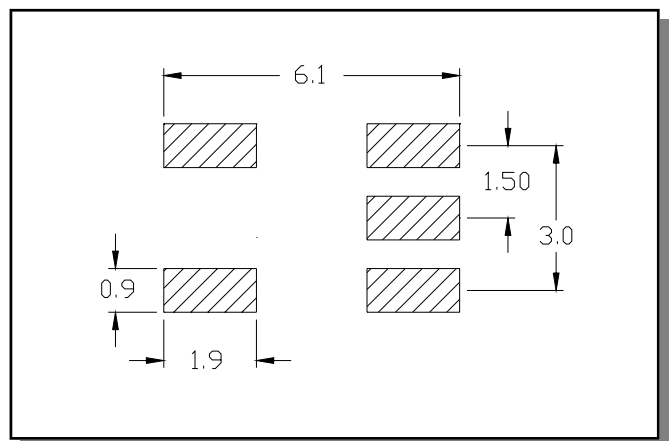


1. Dimensions in mm.
2. Tolerance:  $\pm 0.2\text{mm}$  unless otherwise noted.
3. Model number and lot code printed on reel.
4. Pin material CuSn6

## Application Circuit



## Recommended Footprint



## Tape & Reel Information

Parameter	Units	Value
Qty per reel	-	2000
Reel size	mm	330
Tape width (W)	mm	12.0
Pitch (P <sub>1</sub> )	mm	8
A <sub>0</sub>	mm	5.6
B <sub>0</sub>	mm	4.5
K <sub>0</sub>	mm	4.0
Orientation	-	F26

## Ordering Information

Part Number	Description
MABA-010392-CT18A0	Tape & Reel
MABA-010392-CT18TB	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

Temperature data available on request

## ECO History

Rev	Date	Description	ECO
V1	13 April 2010	Created datasheet	20100751