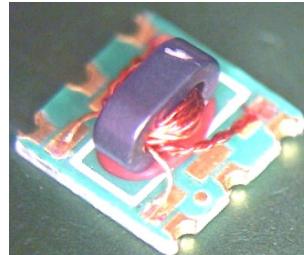


Transformer, 1:1 Transmission Line  
5MHz - 1200MHz

Rev. V1

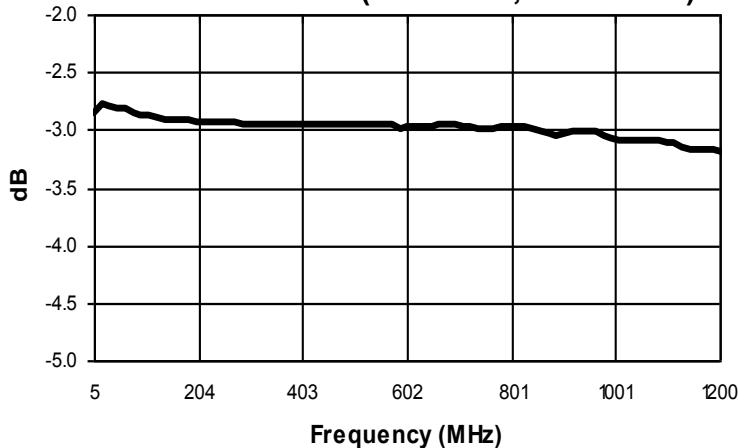
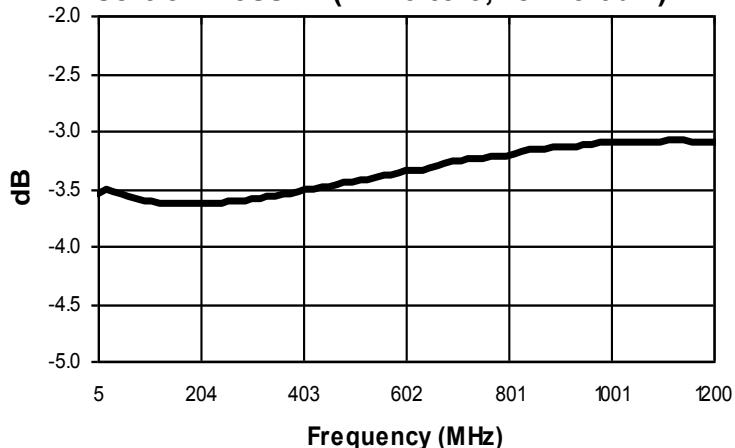
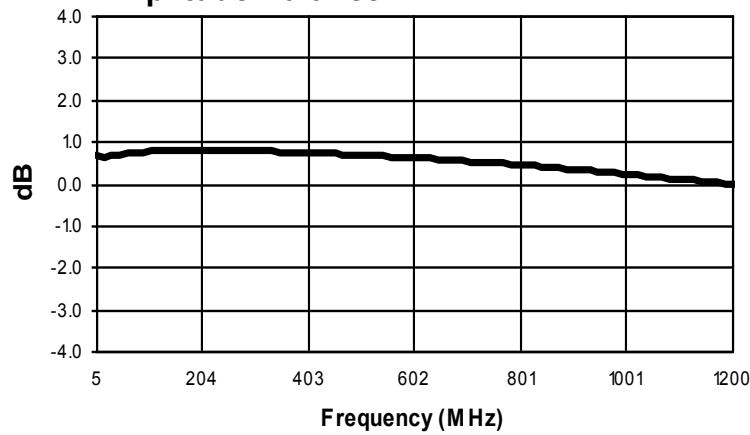
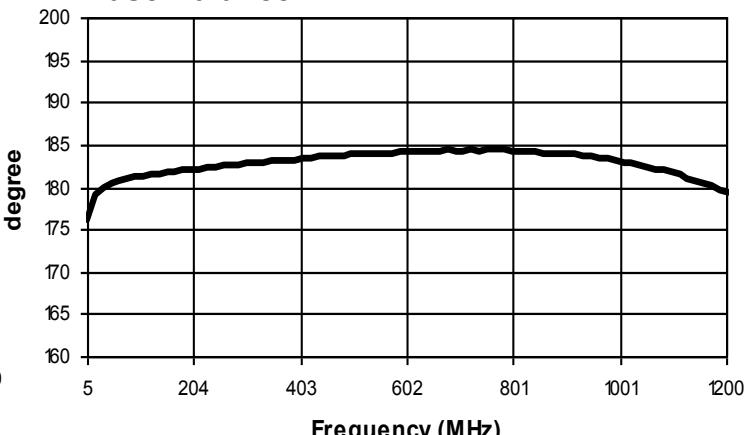
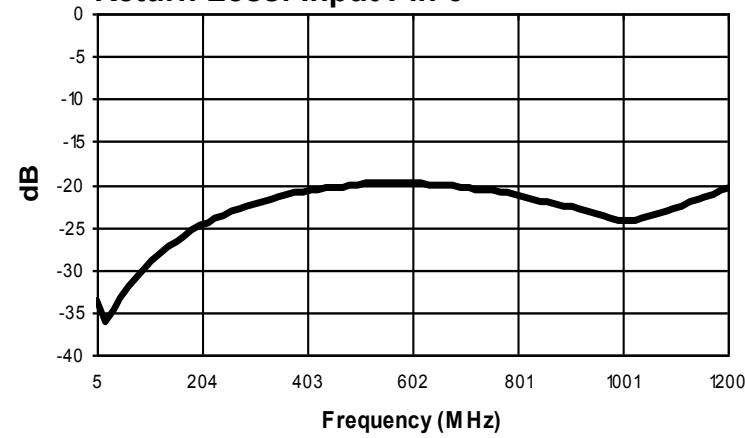
## Features

- Surface mount
- 1:1 Impedance ratio
- 260°C reflow compatible
- RoHS\* compliant, Pb-Free
- Available on tape and reel.

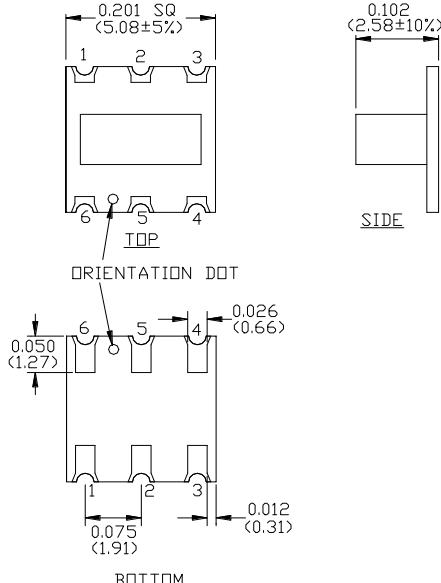


**Electrical Specifications:**  $Z_0 = 75\Omega$ ,  $T_A = 25^\circ\text{C}$ ,  $P_{\text{in}} = 0\text{dBm}$

Parameter	Conditions	Units	Min	Typ	Max
Frequency Range		MHz	5		1200
Impedance		$\Omega$		75	
Impedance Ratio				1:1	
Insertion Loss	5 - 1200MHz	dB	-	0.2	0.8
Amplitude Balance	5 - 1200MHz	dB	-0.9	0.7	0.9
Phase Balance	5 - 200MHz 200 - 1200MHz	°	-4.0 -9.0	3.0 7.0	4.0 9.0
Input Return Loss	5 - 200MHz 200 - 400MHz 400 - 1000MHz 1000 - 1200MHz	dB	20 18 16 14	21 23 20 20	- - - -

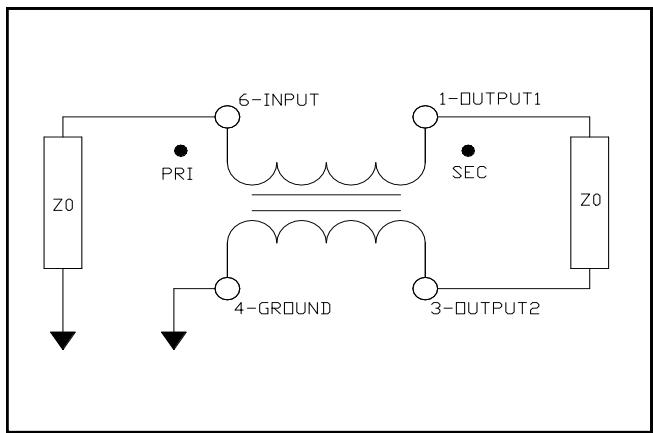
**Electrical Specifications:**  $Z_0 = 75\Omega$ ,  $T_A = 25^\circ\text{C}$ ,  $P_{\text{in}} = 0\text{dBm}$ **Insertion Loss 1: (Pin 6 to 1, ref -3.0dB)****Insertion Loss 2: (Pin 6 to 3, ref -3.0dB)****Amplitude Balance****Phase Balance****Return Loss: Input Pin 6**

## Outline Drawing

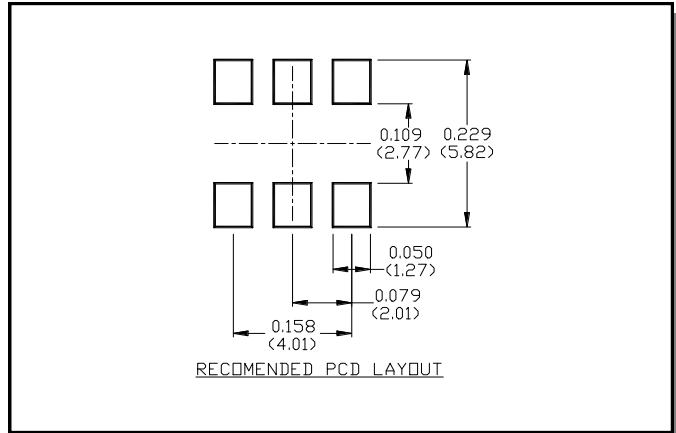


1. Dimensions in mm.
2. Tolerance:  $\pm 0.2$ mm unless otherwise noted.
3. Model number and lot code printed on reel.
4. Plating finish: ENIG on both sides

## Application Circuit



## Recommended Footprint



## Tape &amp; Reel Information

Parameter	Units	Value
Qty per reel	-	2000
Reel size	mm	330
Tape width (W)	mm	12.00
Pitch (P <sub>1</sub> )	mm	8.00
A <sub>0</sub>	mm	5.3
B <sub>0</sub>	mm	5.3
K <sub>0</sub>	mm	2.7
Orientation	-	F53
Reference Application note ANI-019 for orientation		

## Ordering Information

Part Number	Description
MABA-011031	Tape & Reel

## Recommended Maximum Ratings

Parameter	Units	Min	Max
Input Power	mW		+24dBm (250mW)
DC Current	mA		30
Operating Temperature Range	°C	-40	+85

Temperature data available on request

## Pin Configuration

Pin No.	Function
1	Secondary Dot (output1)
2	Not Used (Ground)
3	Secondary (output2)
4	Primary (ground)
5	Not Used (Ground)
6	Primary Dot

## Schematic

