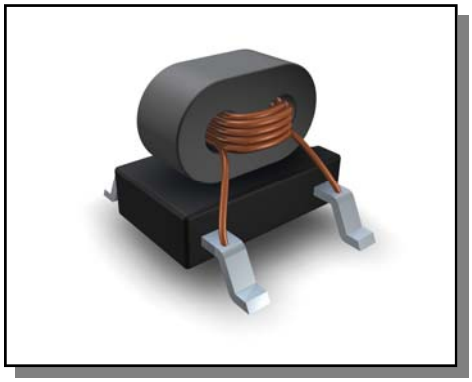
MABA-010411-CT1160

Transformer, 1:1 75Ω
30 MHz - 60 MHz

Rev. V1

Features

- 1:1 impedance ratio
- Surface mount
- Available on tape and reel
- 260ºC 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.



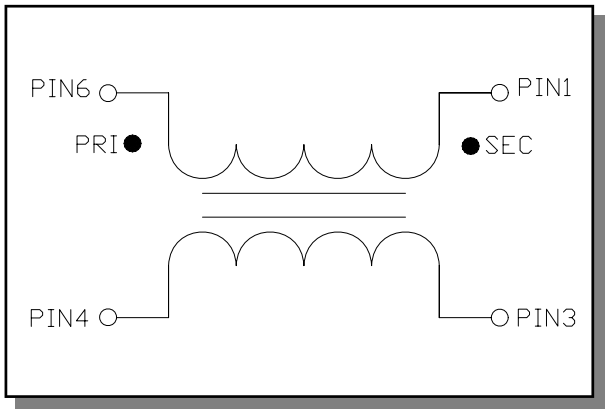
Electrical Specifications: Z_0 = 75Ω, T_A = 25°C, P_{in} = 0dBm

Parameter	Conditions	Units	Min	Typ	Max
Frequency Range		MHz	30		60
Impedance		Ω		75	
Impedance Ratio				1:1	
Insertion Loss 1 (Pin6 - 1)	30 - 60 MHz	dB	-	0.2	0.0
Insertion Loss 2 (Pin6 - 3)	30 - 60 MHz	dB	-	0.8	1.1
Amplitude Balance	30 - 60 MHz	dB	0.5	0.1	1.5
Phase Balance	30 - 60 MHz	Degree	-	0.2	±2
Input Return Loss (Pin6)	30 - 60 MHz	dB	20	32	-

Pin Configuration

Pin No.	Function
1	Secondary Dot
2	Center Tap
3	Secondary
4	Primary
6	Primary Dot

Schematic



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Visit www.macomtech.com for additional data sheets and product information.

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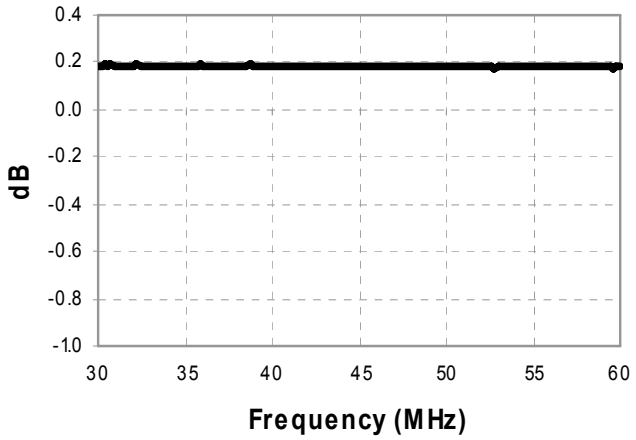
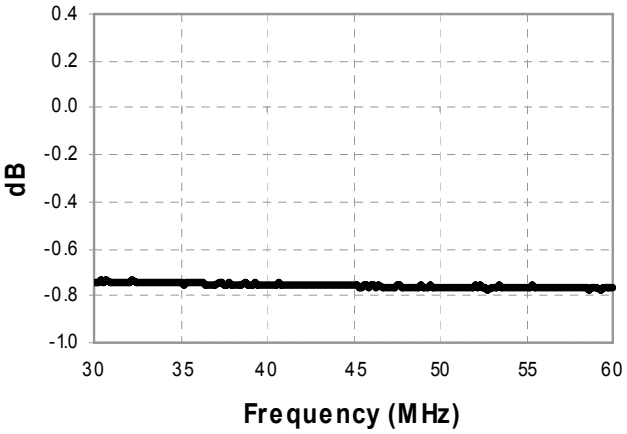
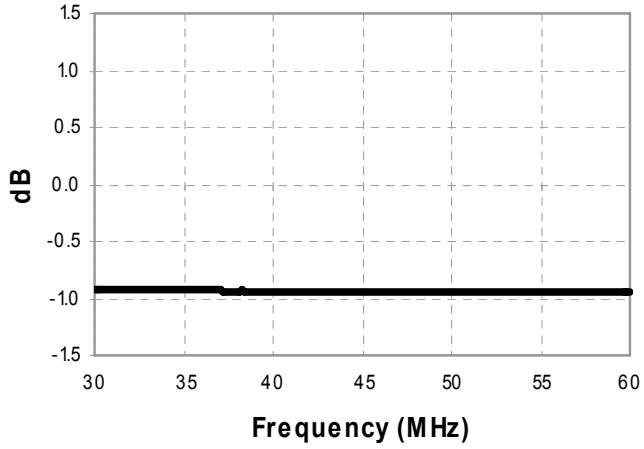
Insertion Loss 1: Pin6 - Pin1



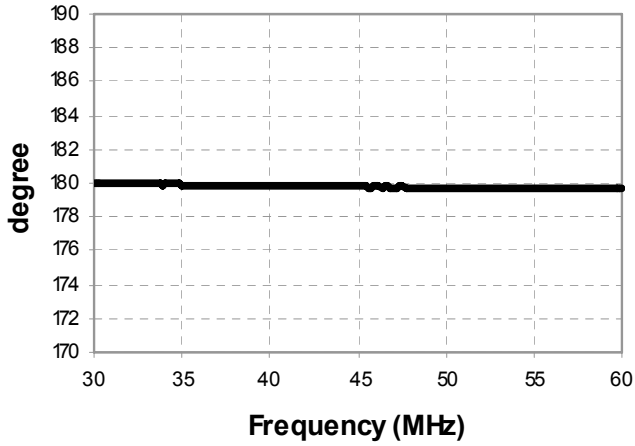
Insertion Loss 2: Pin6 - Pin3



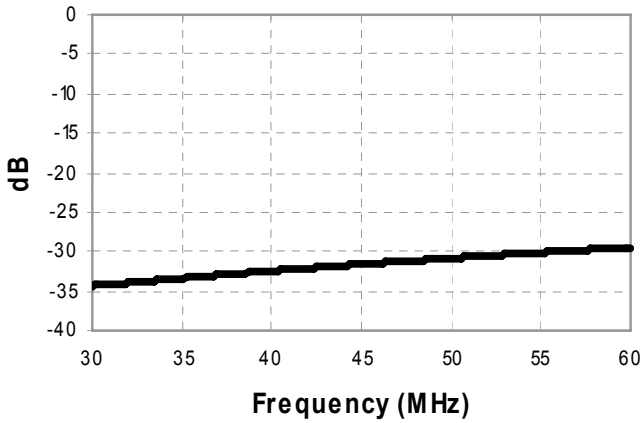
Amplitude Balance



Phase Balance



Input Return Loss: Pin6



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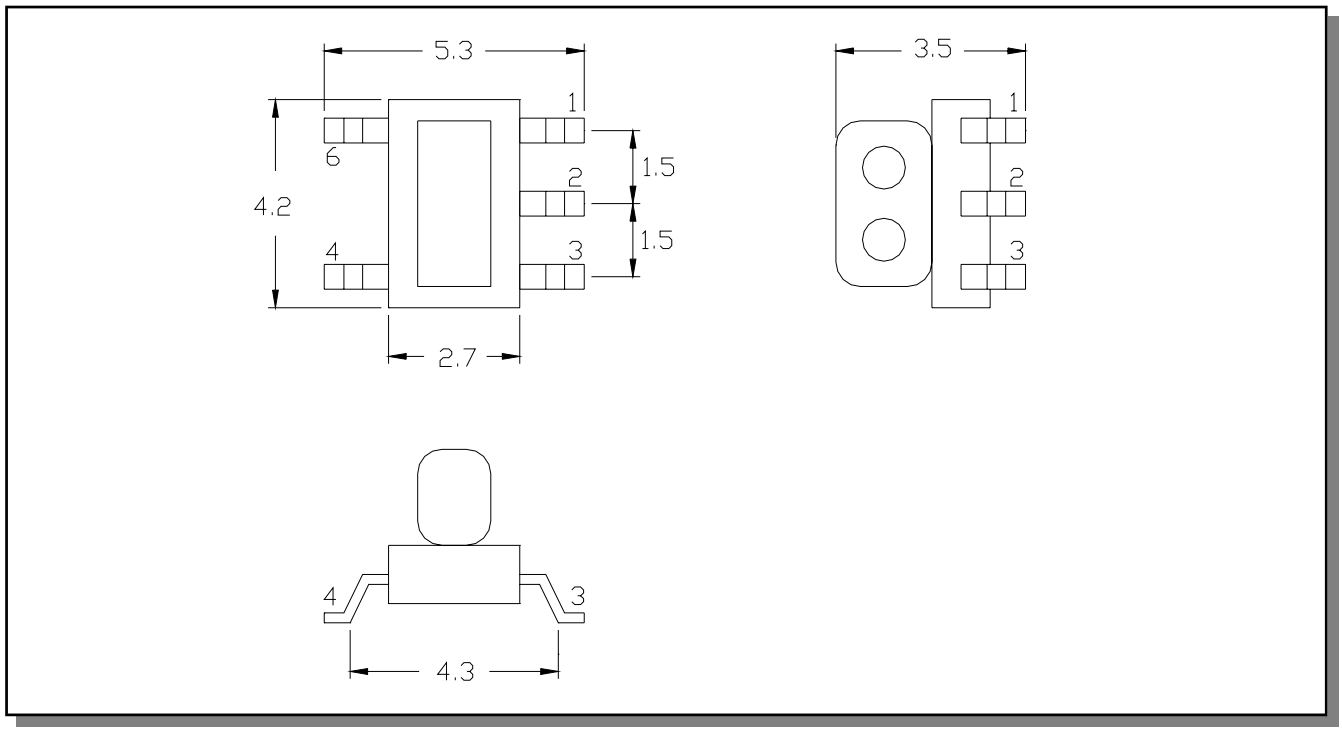
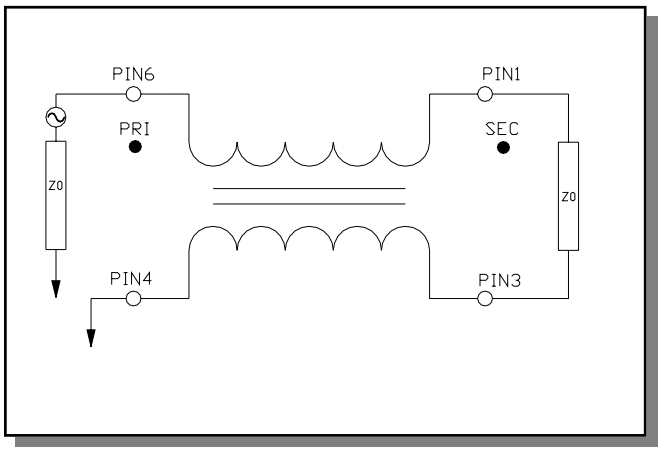
Outline Drawing

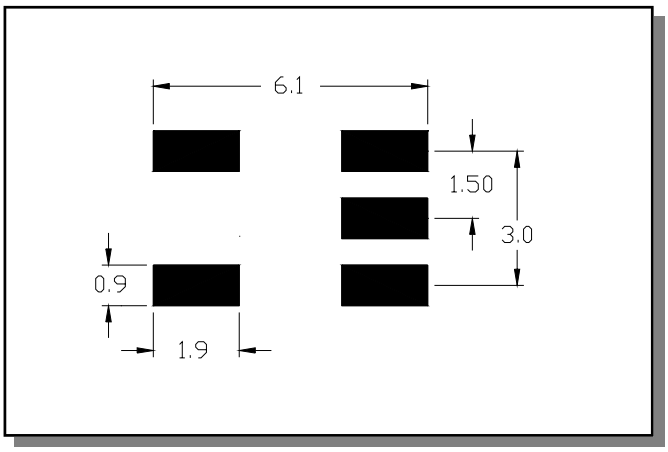


1. Dimensions in mm.
2. Tolerance: ±0.2mm unless otherwise noted.
3. Model number and lot code printed on reel.
4. Pin material CuSn6

Application Circuit



Recommended Footprint



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Tape & Reel Information

Parameter	Units	Value
Qty per reel	-	2000
Reel size	mm	330
Tape width (W)	mm	12.0
Pitch (P_1)	mm	8.0
A_0	mm	5.6
B_0	mm	4.5
K_0	mm	4.0
Orientation	-	F-26
Reference Application Note ANI-019 for orientation		

Ordering Information

Part Number	Description
MABA –010411-CT1160	Tape & Reel
MABA –010411-CT11TB	Customer Evaluation Board

Recommended Maximum Ratings

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

Temperature data available on request

ECO History

Rev	Date	Description	ECO
V1	5 July 2010	Created datasheet	20100819