Transformer, 1:1 40 MHz - 200 MHz

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

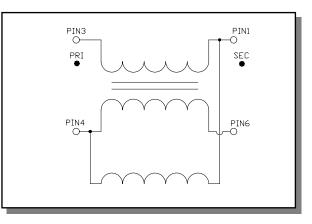
Parameter	Conditions	Units	Min	Тур	Max
Frequency Range		MHz	40		200
Impedance		Ω		75	
Impedance Ratio				1:1	
Insertion Loss 1	40 - 120 MHz	dB	-	0.4	.5
Pin3 - Pin1	120 - 200 MHz	dB	-	0.5	.6
Insertion Loss 2 Pin3 - Pin6	40 - 200 MHz	dB	-	0.4	.5
Amplitude Balance	40 - 200 MHz	dB	-	0.1	±0.2
Phase Balance	40 - 200 MHz	Degree	-	0.5	±2.0
Input Return Loss Pin3	40 - 200 MHz	dB	20	23	-

Pin Configuration

1

Pin No.	Function	
1	Secondary Dot (Output 1)	
2	Not Connected (Ground)	
3	Primary Dot (Input)	
4	Primary (Ground)	
6	Secondary (Output 2)	

Schematic



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 Europe Tel: +353.21.244.6400
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 Visit www.macomtech.com for additional data sheets and product information.

PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in volume is not guaranteed.

M/A-COM Technology Solutions Inc. and its affiliates reserve the right to make changes to the product(s) or information contained herein without notice.

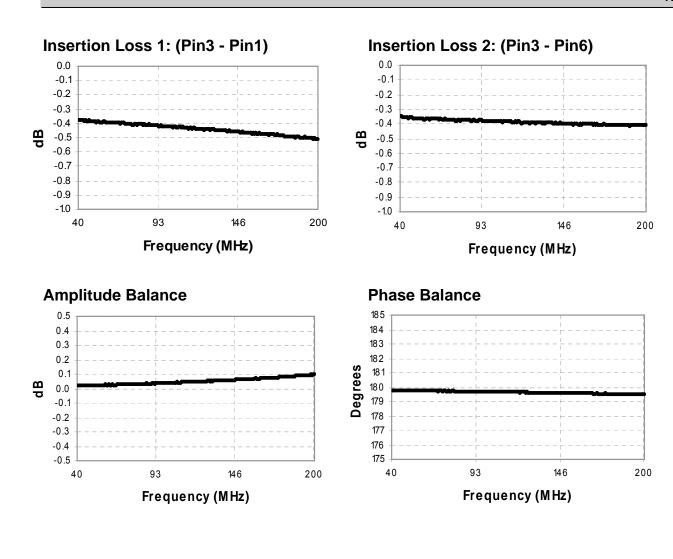


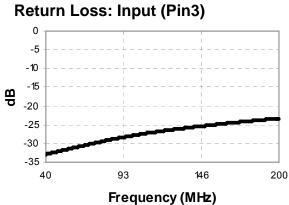




Transformer, 1:1 40 MHz - 200 MHz

Rev. V1





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

2

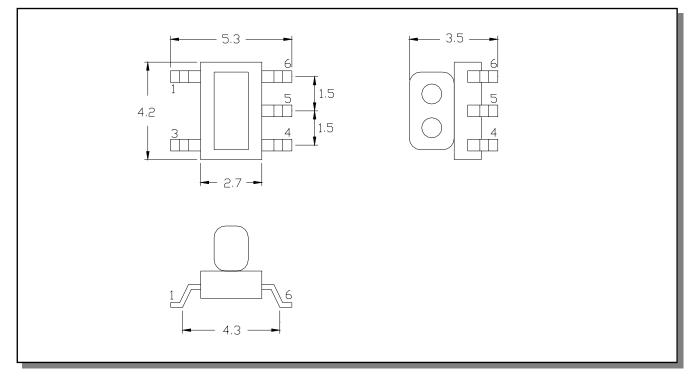
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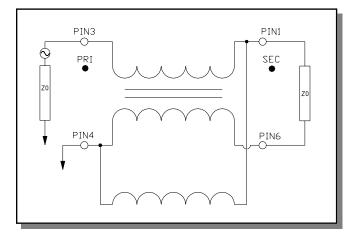
Transformer, 1:1 40 MHz - 200 MHz

Outline Drawing

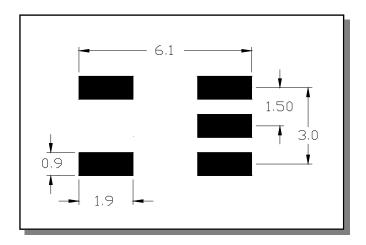


- 1. Dimensions in mm.
- 2. Tolerance: ±0.2mm unless otherwise noted.
- 3. Model number and lot code printed on reel.
- 4. Pin Material: CuSn6

Application Circuit



Recommended Footprint



3

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Rev. V1





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	-	F26	
Reference Application Note ANI-019 for orientation			

Ordering Information

Part Number	Description
MABA –010400-CT18A0	Tape & Reel
MABA –010400-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	28 July 2010	Released	20100951

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