Transformer, 1:2 5 MHz - 1000 MHz

Features

- 1:2 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	5		1000
Impedance		Ω		75	
Impedance Ratio				1:2	
Insertion Loss	5 - 600 MHz 600 - 1000 MHz	dB dB	-	0.6 1.1	0.8 1.3
Input Return Loss	5 - 200 MHz 200 - 500 MHz 500 - 1000 MHz	dB dB dB	20 12 8	23 14 11	

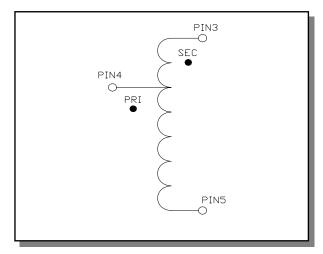
Pin Configuration

Pin No.	Function	
1	Not used (ground)	
2	Not used (ground)	
3	Secondary Dot	
4	Primary Dot	
5	Primary and Secondary	

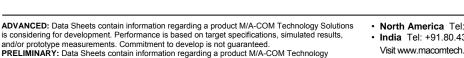
Solutions has under development. Performance is based on engine

typical. Mechanical outline has been fixed. Endired Commitment to produce in volume is not outpractice

Schematic



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sample

ering tests. Specifications are d/pritest catain ay be available

- North America Tel: 800.366.2266 Europe Tel: +353.21.244.6400 • India Tel: +91.80.43537383 • China Tel: +86.21.2407.1588
 - Visit www.macomtech.com for additional data sheets and product information.

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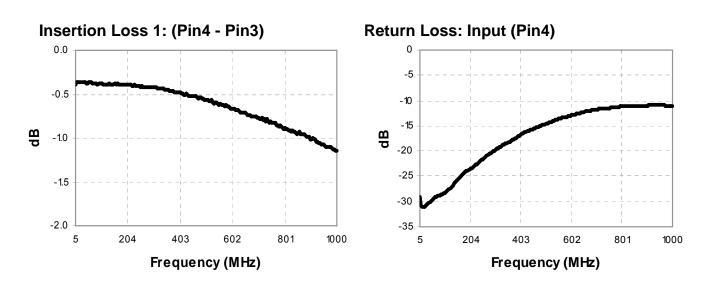


Rev. V1



Transformer, 1:2 5 MHz - 1000 MHz

Rev. V1

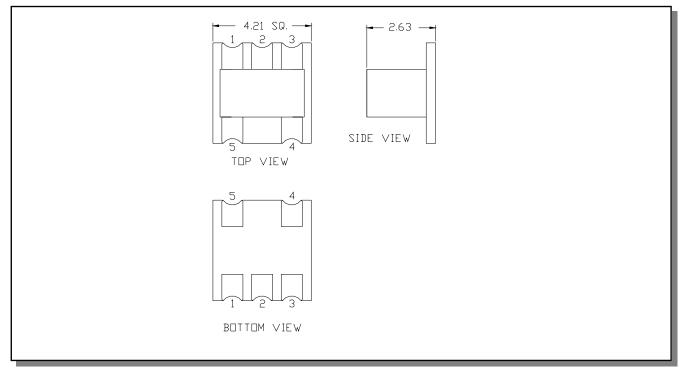


Electrical Specifications: $Z_0 = 75\Omega$, $T_A = 25^{\circ}C$, $P_{in} = 0dBm$



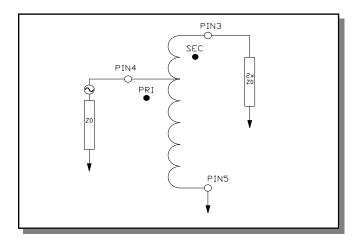
Transformer, 1:2 5 MHz - 1000 MHz

Outline Drawing

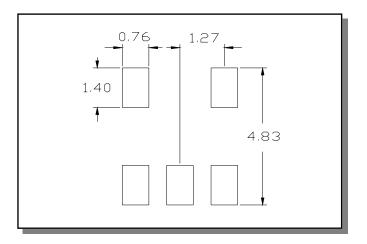


- 1. Dimensions in mm.
- 2. Tolerance: ±0.2mm unless otherwise noted.
- 3. Model number and lot code printed on reel.
- 4. Plating finish: ENIG on both sides, 0.05 to 0.1 µm gold over 3 to 6 µm nickel

Application Circuit



Recommended Footprint



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Rev. V1



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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	4.5	
B ₀	mm	4.5	
K ₀	mm	2.73	
Orientation	-	F-31	
Reference Application Note ANI-019 for orientation			

Ordering Information

Part Number	Description
MABA-010449-CA2A40	Tape & Reel
MABA-010449-CA2ATB	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	12-Oct-2010	Datasheet released on Matrix	20101588

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