Transformer, 1:4 10 MHz - 1900 MHz

Features

- 1:4 impedance ratio
- Transmission line Transformer
- 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



PIN6 O

PRI

- PIN4 C ОРІМЗ ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions • North America Tel: 800.366.2266 • Europe Tel: +353.21.244.6400 is considering for development. Performance is based on target specifications, simulated results,
 - India Tel: +91.80.43537383 • China Tel: +86.21.2407.1588 Visit www.macomtech.com for additional data sheets and product information.

O PIN1

-O PIN2

SEC

and/or prototype measurements. Commitment to develop is not guaranteed. **PRELIMINARY:** Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on ending ering test. Specifications are WA-CONTECTING OF Soutions In c. and its affiliates reserve the right to make pranses to the product(s) of information con ained herein without notice. typical. Mechanical outline has been fixed. Endir sering Commitment to produce in volume is not pur ranged ample

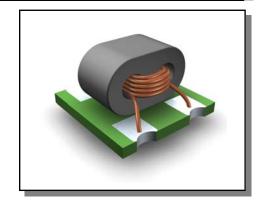
Electrical Specifications: $Z_0 = 50\Omega$, $T_A = 25^{\circ}C$, $P_{in} = 0dBm$

Parameter	Conditions	Units	Min	Тур	Max
Frequency Range		MHz	10		1900
Impedance		Ω		50	
Impedance Ratio				1:4	
Insertion Loss	10 - 600 MHz 600 - 1300 MHz 1300 - 1900 MHz	dB dB dB		1.0 1.8 2.5	1.4 2.5 3.3
Amplitude Balance	10 - 600 MHz 600-1000 MHz 1000-1900 MHz	dB dB dB	- - -	0.1 0.1 0.0	±0.5 ±1.0 ±1.4
Phase Balance	10 - 250 MHz 250 - 820 MHz 820-1900 MHz	0 0 0		3.0 11.0 12.0	±5 ±15 ±22
Input Return Loss	10 - 400 MHz 400 - 870 MHz 871 - 1900 MHz	dB dB dB	15 9 6	16 12 9	

Pin Configuration

1

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







Rev. V1

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Transformer, 1:4 10 MHz - 1900 MHz

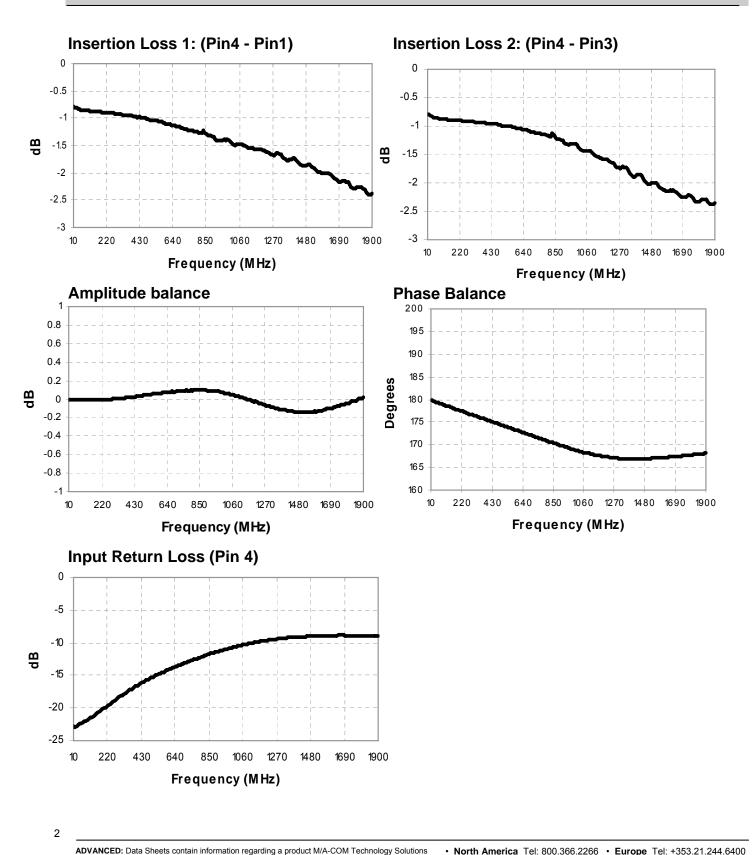
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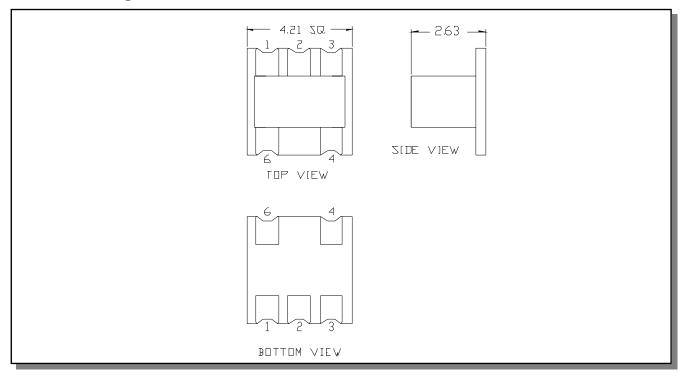


Transformer, 1:4 10 MHz - 1900 MHz

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Rev. V1

Outline Drawing

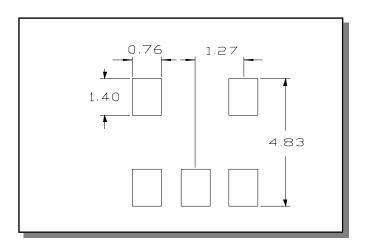


1. Dimensions in mm.

3

- 2. Tolerance: ±0.2mm unless otherwise noted.
- 3. Model number and lot code are printed on the reel.
- 4. Finish: Electreless nickel immersion gold

Recommended Footprint





Transformer, 1:4 10 MHz - 1900 MHz

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Tape & Reel Information

Parameter	Units	Value	
Qty per reel	-	2000	
Reel Size	mm	330	
Tape Width	mm	12.00	
Pitch	mm	8.00	
Ao	mm	4.50	
Во	mm	4.50	
Ko	mm	2.73	
Orientation	-	F31	
Reference Application Note ANI-019 for orientation			

Ordering Information

Part Number	Description
MABA –010374-CT4A40	Tape & Reel
MABA –010374-CT4ATB	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

ECO History

Rev	Date	Description	ECO
V1	26 May 2010	Created datasheet	20100464

4

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