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



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

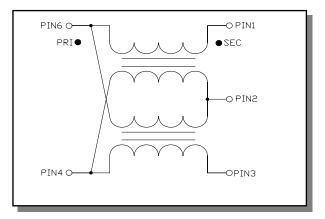
Parameter	Conditions	Units	Min	Тур	Max
Frequency Range		MHz	10		1900
Impedance		Ω		50	
Impedance Ratio				1:4	
Insertion Loss	10 - 600 MHz 600 - 1300 MHz 1300 - 1900 MHz	dB dB dB		1.0 1.8 2.5	1.4 2.5 3.3
Amplitude Balance	10 - 600 MHz 600-1000 MHz 1000-1900 MHz	dB dB dB	- -	0.1 0.1 0.0	±0.5 ±1.0 ±1.4
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

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

Schematic



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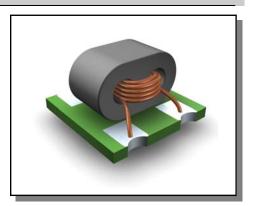
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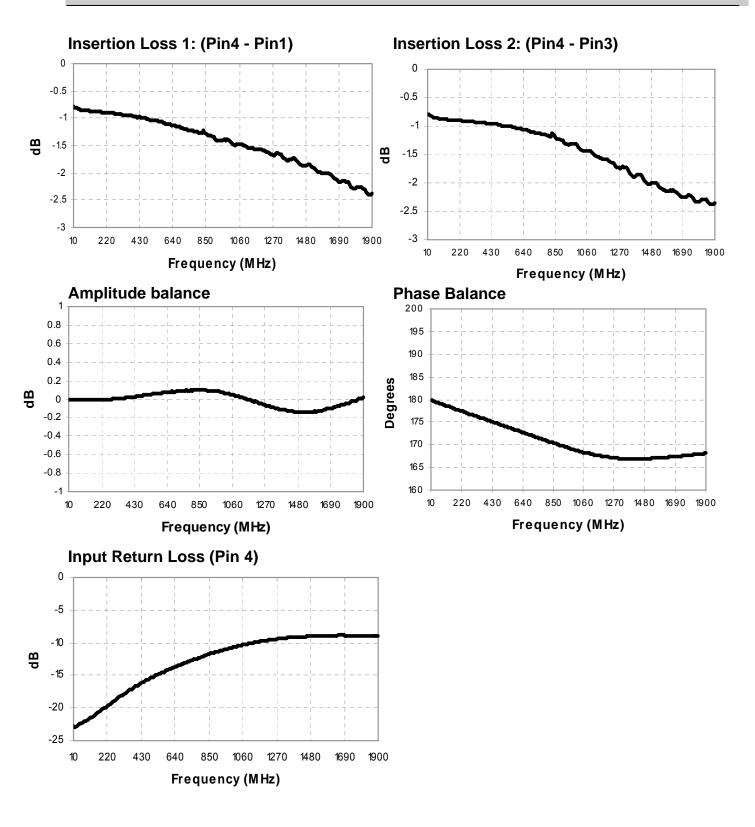


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Transformer, 1:4 10 MHz - 1900 MHz

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2

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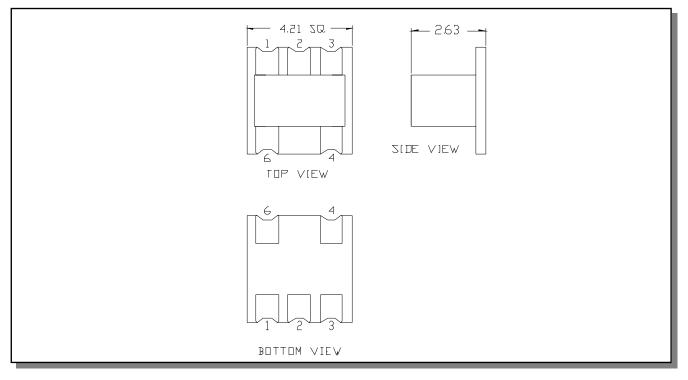


Transformer, 1:4 10 MHz - 1900 MHz

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Outline Drawing

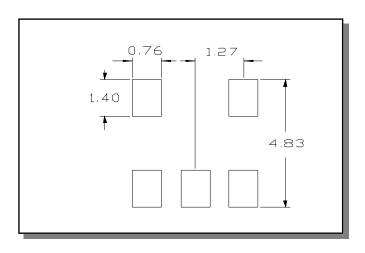


1. Dimensions in mm.

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- 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



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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

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