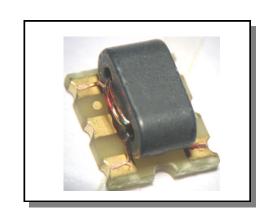


4:1 Step Down Transformer

5 - 200 MHz Rev. V1

Features

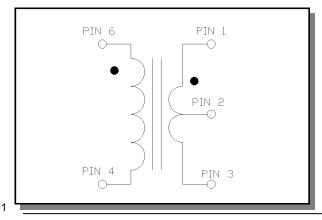
- Surface Mount
- 4:1 Step Down Transformer
- Excellent performance under DC bias current, even when current flows is imbalanced out outputs
- 260°C Reflow Compatible
- RoHS* Compliant, lead free
- Available on Tape and Reel.



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

Parameter	Conditions	Units	Min	Тур	Max
Insertion Loss 1 (pin6-pin1)	5 - 50 MHz 50 - 150 MHz 150 - 200 MHz	dB dB dB	- - -	0.4 1.0 2.0	0.8 2.2 3.1
Insertion Loss 2 (pin6-pin3)	5 - 50 MHz 50 - 150 MHz 150 - 200 MHz	dB dB dB	- - -	0.4 1.1 2.4	0.8 2.5 3.6
Amplitude Balance	5 - 50 MHz 50 - 150 MHz 150 - 200 MHz	dB dB dB	- - -	0.0 0.0 0.3	±0.4 ±1.0 ±1.4
Phase Balance	5 - 50 MHz 50 - 200 MHz	0	-	0.6 0.8	±4 ±9
Input Return Loss (pin6)	5 - 25 MHz 25 - 50 MHz 50 - 150 MHz 150 - 200 MHz	dB dB dB dB	17 12 5 3	20 15 9 5	- - -

Schematic



Pin Configuration

Pin No.	Function	
1	Secondary Dot (output1)	
2	Ground (center tap)	
3	Secondary (output2)	
4	Primary (RF ground)	
5	Ground (not used)	
6	Primary dot (input)	

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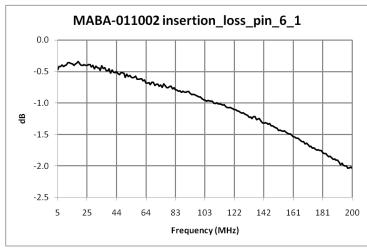
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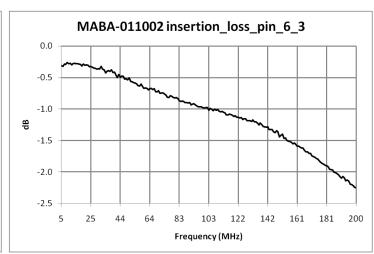


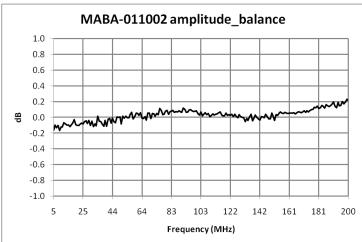
4:1 Step Down Transformer

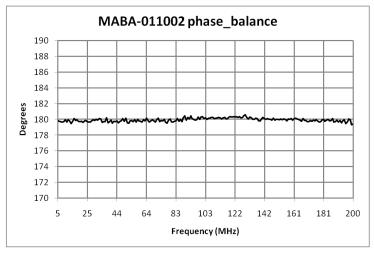
5 - 200 MHz Rev. V1

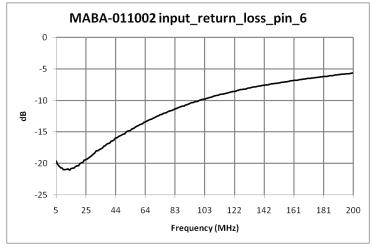
Electrical Specifications: $Z_0 = 75\Omega$, $T_A = 25$ °C, $P_{in} = 0$ dBm











2

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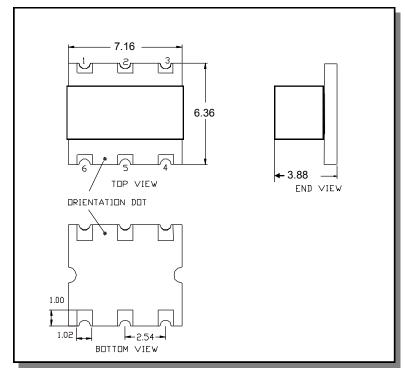
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4:1 Step Down Transformer

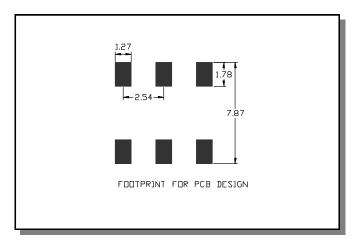
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Outline Drawing

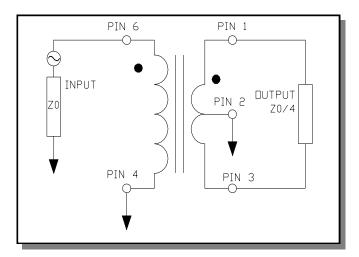


Dimensions in mm Tolerance: .xx \pm .30, .xxx \pm .030, unless otherwise stated

Recommended Footprint



Application Circuit



3

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4:1 Step Down Transformer

5 - 200 MHz Rev. V1

Tape & Reel Information

Parameter	Units	Value		
Qty per reel	-	900		
Reel Size	mm	330		
Tape Width	mm	16.00		
Pitch	mm	12.00		
Ao	mm	6.60		
Во	mm	7.40		
Ko	mm	4.10		
Orientation	-	F38		
Deference Application Nata ANII 040 for againstation				

Reference Application Note ANI-019 for orientation

Ordering Information

Part Number	Description		
MABA-011002	Tape & Reel		
MABA-011002-TB	Customer Evaluation Board		

Recommended Maximum Ratings

Parameter	Units	Min	Max
Input Power	W		1
Internal Load Dissipation	W		0.125
Tested up to DC bias current, will perform above this level	mA		900
Operating Temperature Range	°C	-40	+85

Full temperature plots available on request

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