1:4 Step up Flux Coupled Balun Transformer 1 - 300 MHz

Features

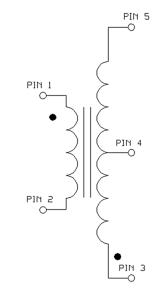
- Surface Mount
- 1:4 Impedance
- RoHS Compliant and Lead free
- 260°C Reflow Compatible
- Excellent temperature stability
- Available on Tape and Reel
- Suitable for all CATV, Broadband and FTTX applications.

Description

MABA-011039 is a 1:4 flux coupled transmission. This transformer is ideally suited for CATV and Broadband applications.



Functional Schematic



Ordering Information

Part Number	Package	
MABA-011039	Tape & Reel	
MABA-011039-TB	Customer Test Board	

Pin Configuration

Pin No.	Function	
1	Primary Dot (input)	
2	Primary (ground)	
3	Secondary (output2)	
4	Centre Tap (ground)	
5	Secondary Dot (output1)	

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Rev. V2



1:4 Step up Flux Coupled Balun Transformer 1 - 300 MHz

Rev. V2

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

Parameter	Conditions	Units	Min	Тур	Max
Frequency Range	-	MHz	1		300
Impedance	-	Ω	-	75	-
Impedance Ratio	-	-	-	1:4	-
Insertion Loss 1 (Pin1 - Pin5)	1 - 300 MHz	dB	-	0.7	1.1
Insertion Loss 2 (Pin1 - Pin3)	1 - 300 MHz	dB	-	0.6	1.1
Amplitude Balance	1 - 300 MHz	dB	-	0.05	±0.5
Phase Balance	1 - 300 MHz	0	-	0.2	±3.0
Input Return Loss (Pin1)	1 - 300 MHz	dB	14	21	-

Recommended Maximum Ratings

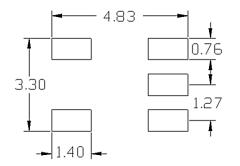
Parameter	Units	Min	Max
Input RF Power	MW	-	2000
DC Current	mA	-	1500
Operating Temperature Range	°C	-40	+125

Full temperature plots available on request

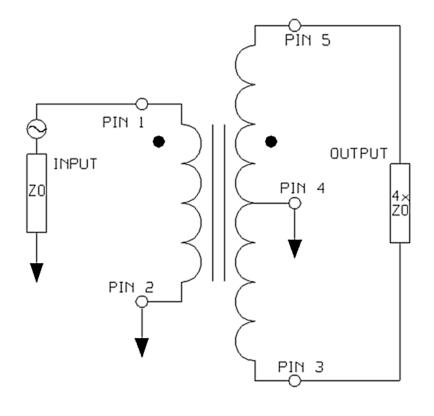
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1:4 Step up Flux Coupled Balun Transformer 1 - 300 MHz

PCB layout



Application Schematic



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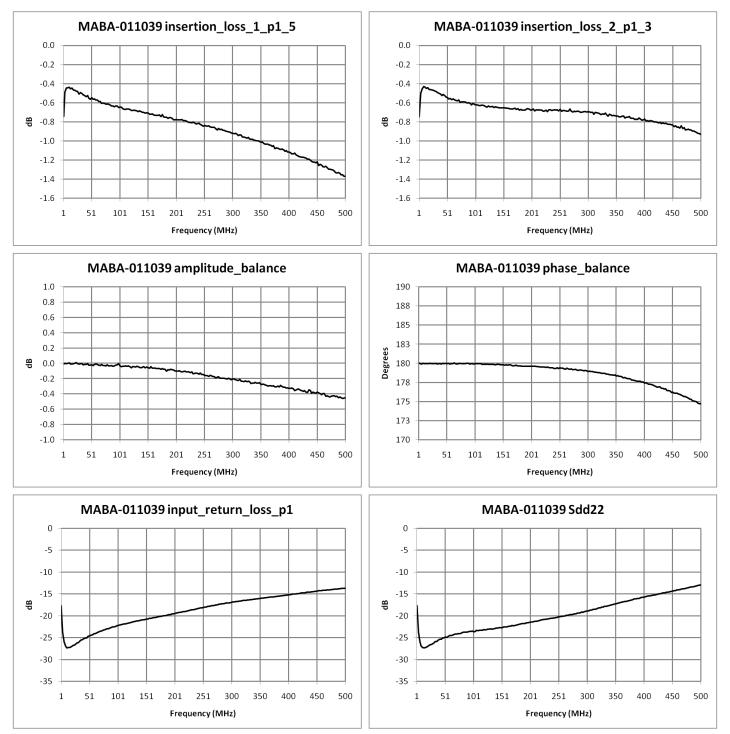


Rev. V2



1:4 Step up Flux Coupled Balun Transformer 1 - 300 MHz

Typical Performance Curves



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

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Outline Drawing

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1:4 Step up Flux Coupled Balun Transformer 1 - 300 MHz

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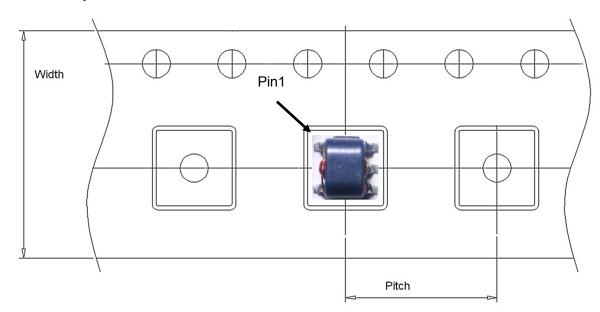
Tape & Reel Information

Parameter	Units	Value
Qty per reel	-	2000
Reel Size	mm	330
Tape Width	mm	12.00
Pitch	mm	8.00
Ao	mm	4.40
Во	mm	4.00
Ko	mm	3.90
Orientation	-	F26
Reference Application Note ANI-019 for orientation		

- 1. Dimensions in mm.
- 2. Tolerance: ±0.2mm unless otherwise noted.

END

- 3. Model number and lot code are printed on the reel.
- 4. Lead plating: (CuSn6) Lead Finish SAC-305.



Carrier Tape Orientation

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Rev. V2

1:4 Step up Flux Coupled Balun Transformer 1 - 300 MHz



Rev. V2

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