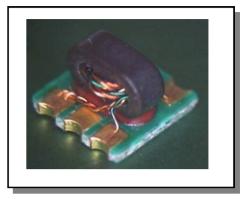
Transformer, 1:1 Transmission Line 600 - 1700 MHz

Features

- Surface Mount
- 1:1 Impedance
- Excellent MoCA band performance
- Excellent amplitude and phase balance
- Can be used in both 50Ω and 75Ω systems
- 260°C Reflow Compatible
- RoHS* Compliant, Pb Free
- Available on Tape and Reel.



Parameter	Conditions	Units	Min	Тур	Max
Frequency Range		MHz	600		1700
Impedance		Ω		50	
Impedance Ratio				1:1	
Insertion Loss (Pin6 - Pin1)	600 - 1,000 MHz 1,000 - 1,300MHz 1,300 - 1,700MHz	dB dB dB		0.3 0.5 0.8	0.60 0.80 1.30
Insertion Loss (Pin6 - Pin3)	600 - 1,000 MHz 1,000 - 1,300MHz 1,300 - 1,700MHz	dB dB dB		0.4 0.3 0.3	0.60 0.60 1.00
Amplitude Balance	600 - 1,000 MHz 1,000 - 1,300MHz 1,300 - 1,700MHz	dB dB dB	-0.5 -0.9 -1.2	0.1 -0.2 -0.5	0.5 0.9 1.2
Phase Balance	600 - 1,000 MHz 1,000 - 1,300MHz 1,300 - 1,700MHz	0 0 0	-4 -4 -5	1.0 1.0 0.0	4 4 5
Input Return Loss (Pin6)	600 - 1,000 MHz 1,000 - 1,300MHz 1,300 - 1,700MHz	dB dB dB	15 14 13	30 28 22	

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

1



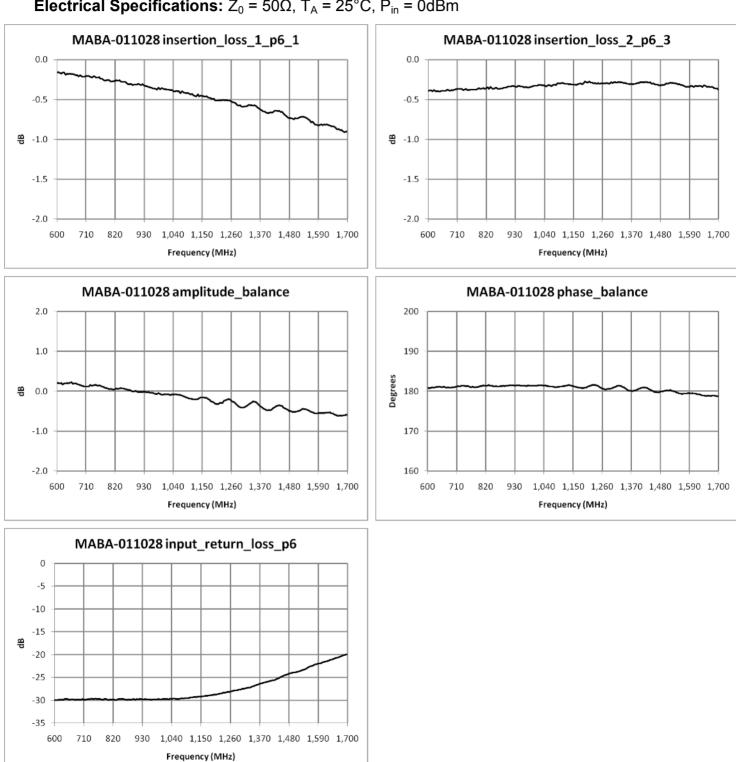
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Transformer, 1:1 Transmission Line 600 - 1700 MHz

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

2

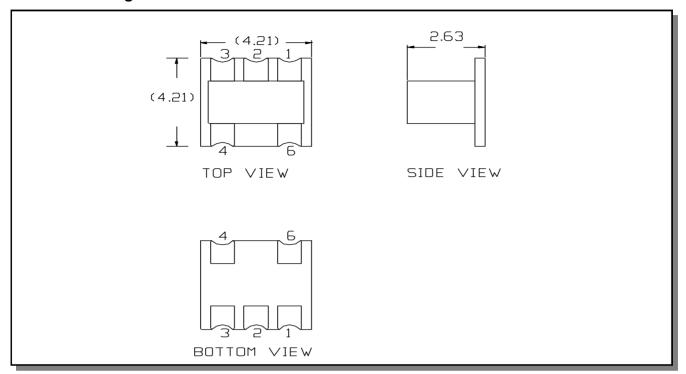
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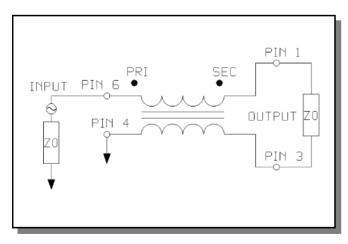
Transformer, 1:1 Transmission Line 600 - 1700 MHz

Outline Drawing

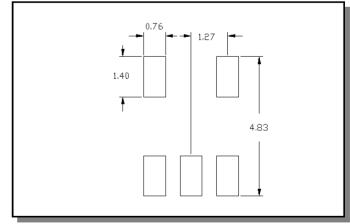


- 1. Dimensions in mm.
- 2. Tolerance: ±0.2mm unless otherwise noted.
- 3. Model number and lot code printed on reel.
- 4. Plating finish: ENIG on both sides

Application Circuit



Recommended Footprint



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Transformer, 1:1 Transmission Line 600 - 1700 MHz

Tape & Reel Information

Parameter	Units	Value
Qty per reel	-	2000
Reel size	mm	330
Tape width (W)	mm	12.00
Pitch (P ₁)	mm	8.00
A ₀	mm	4.5
B ₀	mm	4.5
K ₀	mm	2.73
Orientation	-	F31
Reference Application note ANI-019 for orientation		

Ordering Information

Part Number	Description	
MABA-011028	Tape & Reel	
MABA-011028-TB	Customer Evaluation Board	

Recommended Maximum Ratings

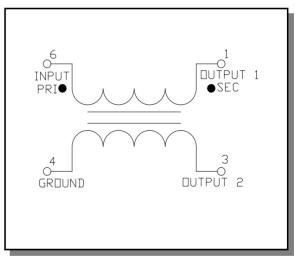
Parameter	Units	Min	Max
Input Power	mW		250
DC Current	mA		200
Operating Temperature Range	°C	-40	+115

Temperature data available on request

Pin Configuration

Pin No.	Function	
1	Secondary Dot (Output 1)	
2	Not Used (Ground)	
3	Secondary (Output 2)	
4	Primary (ground)	
6	Primary Dot (Input)	

Schematic



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Transformer, 1:1 Transmission Line 600 - 1700 MHz



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