imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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Contact us

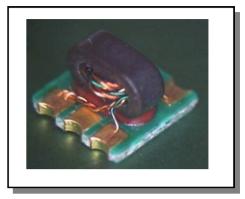
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



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

МАСОМ

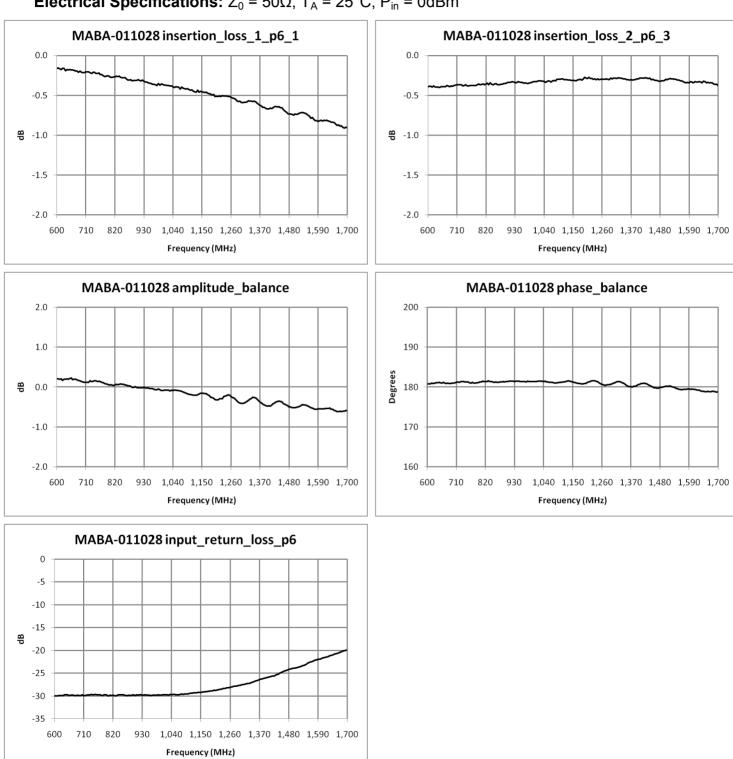
Rev. V2

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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

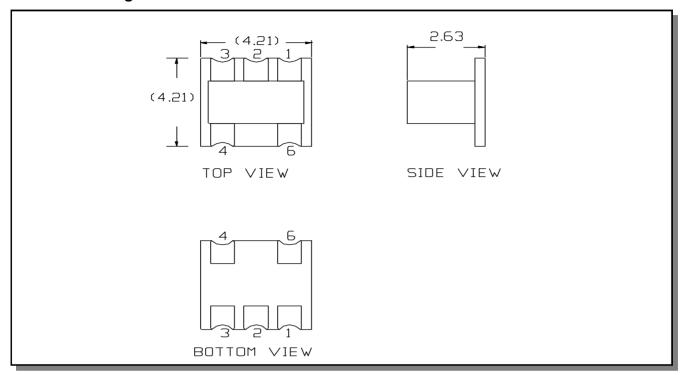
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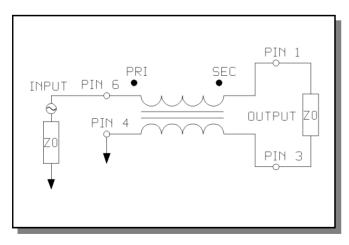
Transformer, 1:1 Transmission Line 600 - 1700 MHz

Outline Drawing

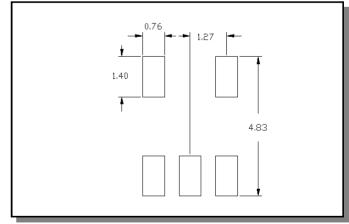


- 1. Dimensions in mm.
- 2. Tolerance: ±0.2mm unless otherwise noted.
- 3. Model number and lot code printed on reel.
- 4. Plating finish: ENIG on both sides

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

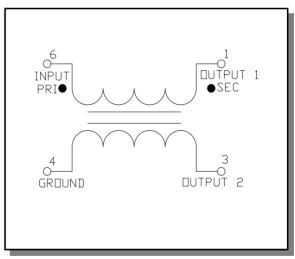
Parameter	Units	Min	Max
Input Power	mW		250
DC Current	mA		200
Operating Temperature Range	°C	-40	+115

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



Rev. V2

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