

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.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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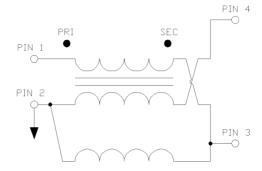
Rev. V3

Features

- 1:1 Impedance Ratio
- Surface Mount
- · Available on tape and reel
- 260°C Reflow compatible
- · RoHS Compliant and Pb free
- · Excellent Temperature Stability
- Can be used on 50 Ω and 75 Ω systems
- · Suitable for all CATV, Broadband and FTTx applications.



Schematic



Ordering Information

Part Number	Description
MABA-011013	Tape & Reel
MABA-011013-TB	Evaluation Board

Pin Configuration

Pin No.	Function		
1	Primary Dot		
2	Primary		
3	Secondary		
4	Secondary Dot		

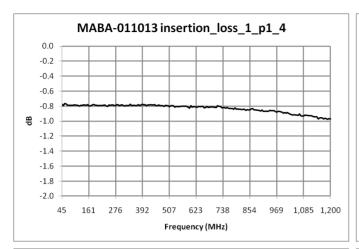
Electrical Specifications: $Z_0 = 75 \Omega$, $T_A = 25$ °C, $P_{IN} = 0 \text{ dBm}$

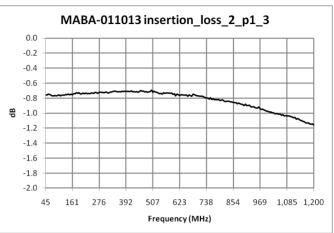
Parameter	Conditions	Units	Min.	Тур.	Max.
Frequency Range	_	MHz	45		1200
Impedance	_	Ω		75	_
Impedance Ratio	_	Ratio	_	1:1	_
Insertion Loss (Pin1 - Pin4)	45 - 100 MHz 100 - 600 MHz 600 - 1200 MHz	dB	_	0.8 0.8 0.9	1.4 1.1 1.3
Insertion Loss (Pin1 - Pin3)	45 - 100 MHz 100 - 600 MHz 600 - 1200 MHz	dB	_	0.8 0.7 0.9	1.4 1.1 1.5
Amplitude Balance	45 - 600 MHz 600 - 1200 MHz	dB	_	0.2 0.3	±0.5 ±1.1
Phase Balance	45 - 600 MHz 600 - 1200 MHz	0	_	2 3	±6 ±10
Input Return Loss (Pin1)	45 - 600 MHz 600 - 1200 MHz	dB	20 15	24 25	_

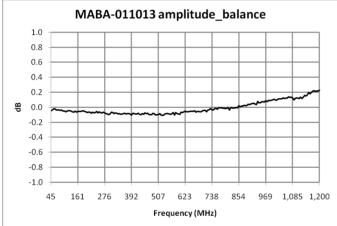
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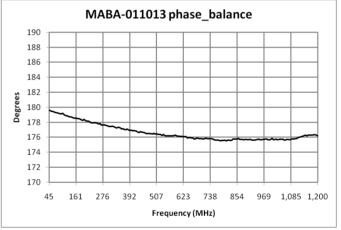


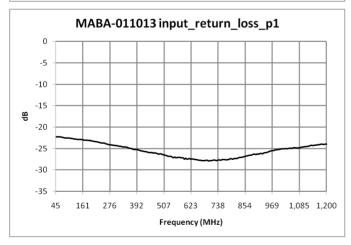
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Electrical Specifications: $Z_0 = 75\Omega$, $T_A = 25$ °C, $P_{in} = 0$ dBm



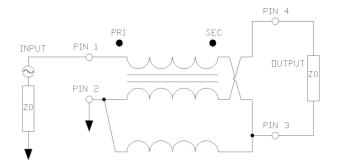
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Recommended Maximum Ratings

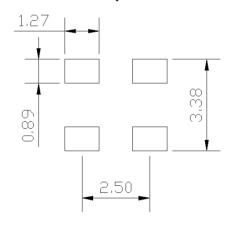
Parameter	Units		
Input Power	2 W		
DC Current	200 mA		
Operating Temperature	-40°C to +100°C		

Temperature data available on request

Application Circuit



Recommended Footprint



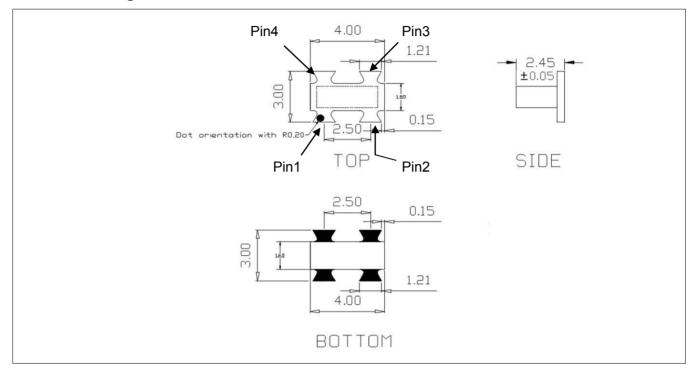
Tape & Reel Information

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	3.3		
B ₀	mm	4.3		
K ₀	mm	2.6		
Orientation	-	F51		
Reference Application note ANI-019 for orientation				



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Outline Drawing



- Dimensions in mm.
- 2. Tolerance: ±0.2mm unless otherwise noted.
- 3. Model number and lot code printed on reel.
- 4. Plating finish: 96.5 % tin, 3% silver, and 0.5% copper

MABA-011013



Transformer, 1:1 Transmission Line with tertiary winding 45 - 1200 MHz

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