MABA-011015



1:2.78 Transformer 45 - 1200 MHz

Preliminary - Rev. V2P

Features

- 1:2.78 impedance ratio
- Surface mount
- Available on tape and reel
- 260°C reflow compatible
- RoHS Compliant, lead-free
- Excellent temperature stability
- Suitable for all CATV, Broadband and FTTx applications.



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

Parameter	Conditions	Units	Min	Тур	Max
Frequency Range		MHz	45		1200
Impedance		Ω		75	
Impedance Ratio				1:2.78	
Insertion Loss (Pin1 - Pin5)	45 - 200 MHz 200 - 600 MHz 600 - 1200MHz	dB dB dB	- - -	1.5 1.1 1.3	2.1 1.7 3.2
Insertion Loss (Pin1 - Pin3)	45 - 200 MHz 200 - 600 MHz 600 - 1200MHz	dB dB dB	- - -	1.7 1.8 2.3	2.3 2.4 3.7
Amplitude Balance	45 - 200 MHz 200 - 600 MHz 600 - 1200MHz	dB dB dB	- - -	0.3 0.8 1.1	±0.6 ±1.6 ±2.2
Phase Balance	45 - 200 MHz 200 - 600 MHz 600 - 1200MHz	0 0 0	- - -	5 12 18	±10 ±20 ±32
Input Return Loss (Pin1)	45 - 200 MHz 200 - 700 MHz 700 - 1200 MHz	dB dB dB	-11 -13 -12	14 17 19	- - -

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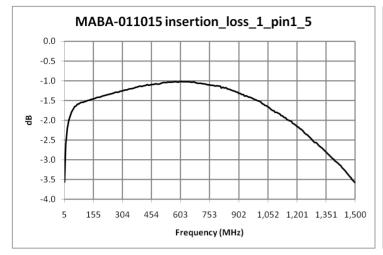
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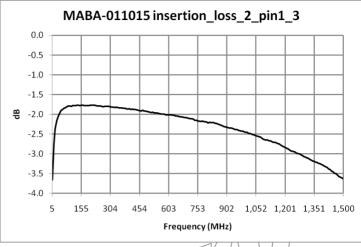
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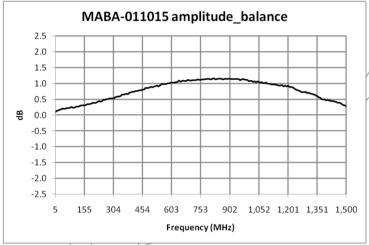


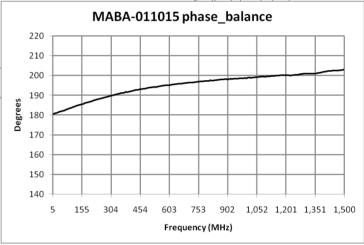
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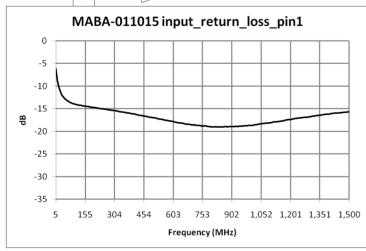
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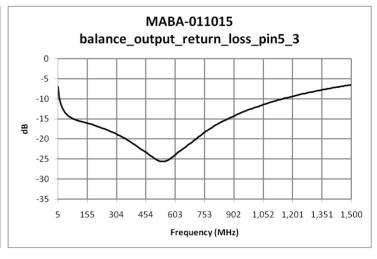












Electrical Specifications: $Z_0 = 75\Omega$, $T_A = 25$ °C, $P_{in} = 0$ dBm

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Europe Tel: +353.21.244.6400
China Tel: +86.21.2407.1588
Visit www.macomtech.com for additional data sheets and product information.

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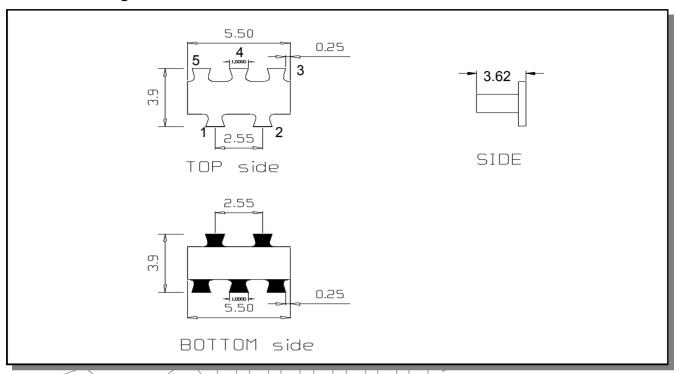
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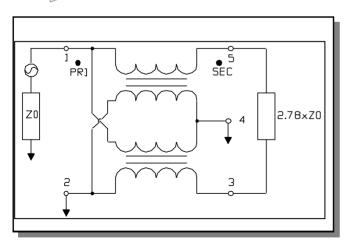
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Outline Drawing

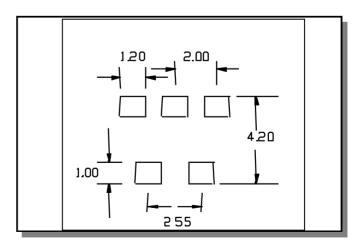


- 1. Dimensions in mm.
- 2. Tolerance: ±0.2mm unless otherwise noted.
- 3. Model number and lot code are printed on the reel.
- 4. Plating finish: ENIG

Recommended DC bias circuit



Recommended Footprint



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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	4.10
Во	mm	5.80
Ko	mm	3.90
Orientation	-	F52

Reference Application Note ANI-019 for orientation

Ordering Information

Part Number	Description		
MABA-011015	Tape & Reel		
MABA-011015-TB	Customer Evaluation Board		

Recommended Maximum Ratings

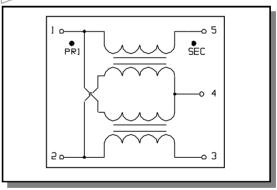
Parameter	Units	Min	Max
Input Power	mW		250
DC Current	mA		200
Operating Temperature Range	°C	-40	+85

Full temperature plots available on request

Pin Configuration

Pin No.	Function	
1	Primary Dot	
2	Primary	
3	Secondary	
4	Centre Tap	
5	Secondary Dot	

Schematic



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