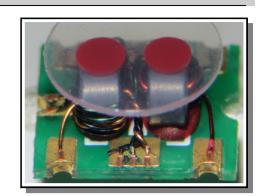


Transformer, 1:2 Transmission Line Balun 5 MHz - 1200 MHz

Rev. V1

Features

- 1:2 impedance ratio
- Transmission line Transformer
- Surface mount
- Available on tape and reel
- 260°C reflow compatible
- RoHS Compliant and Pb free
- Excellent temperature stability
- Can be used on 50Ω and 75Ω systems



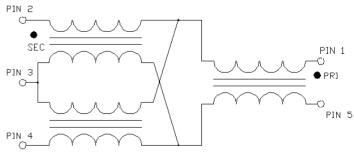
Electrical Specifications: $Z_0 = 75\Omega$, $T_A = 25$ °C, $P_{in} = 0$ dBm

Parameter	Conditions	Units	Min	Тур	Max
Frequency Range		MHz	5		1200
Impedance		Ω		75	
Impedance Ratio				1:2	
Insertion Loss 1 (Pin 1 to pin 2)	5 - 50 MHz 50 - 400 MHz 400 -1000 MHz 1000 -1200 MHz	dB dB dB dB	- - - -	0.30 0.50 0.90 1.60	0.40 0.80 2.00 2.70
Insertion Loss 2 (Pin 1 to pin 3)	5 - 50 MHz 50 - 400 MHz 400 -1000 MHz 1000 -1200 MHz	dB dB dB dB	- - - -	0.50 0.70 1.50 2.40	0.60 1.20 3.00 3.90
Amplitude Balance	5 - 50 MHz 50 - 400 MHz 400 -1200 MHz	dB dB dB	-0.30 -0.90 -2.20	0.10 0.20 0.50	0.30 0.90 2.20
Phase Balance	5 - 50 MHz 50 - 400 MHz 400 -1000 MHz	o o o	-2.0 -6.0 -9.0	0.20 0.70 0.50	2.0 6.0 9.0
Input Return Loss (Pin 1)	5 - 50 MHz 50 - 400 MHz 400 -1000 MHz 1000 -1200 MHz	dB dB dB dB	20 18 9 7	27 28 16 12	- - - -

Pin Configuration

Pin No.	Function	
1	Input (PRI dot)	
2	Output 1 (SEC dot)	
3	Centre tap (RF Ground)	
4	Output 2 (SEC)	
5	Ground (PRI)	

Schematic



ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed. PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology

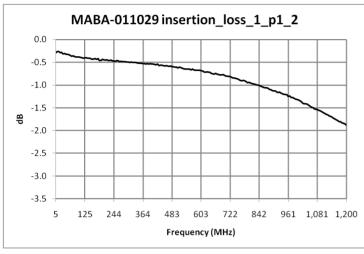
PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in volume is not guaranteed. North America Tel: 800.366.2266
India Tel: +91.80.43537383
Europe Tel: +353.21.244.6400
China Tel: +86.21.2407.1588
Visit www.macomtech.com for additional data sheets and product information.

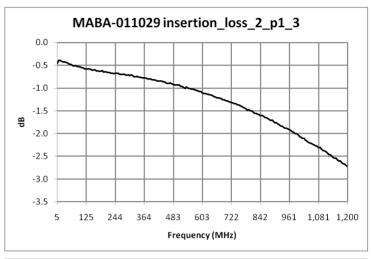


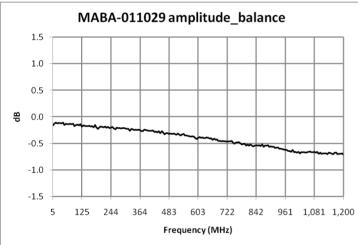
Transformer, 1:2 Transmission Line Balun 5 MHz - 1200 MHz

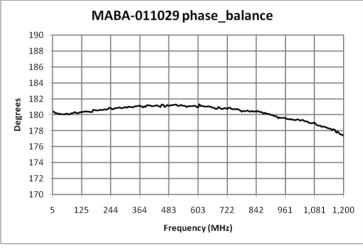
Rev. V1

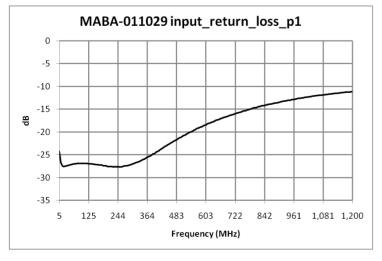
Electrical Specifications: $Z_0 = 75\Omega$, $T_A = 25$ °C, $P_{in} = 0$ dBm









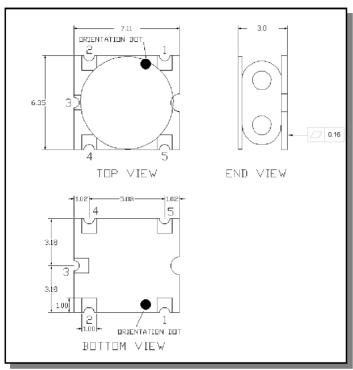




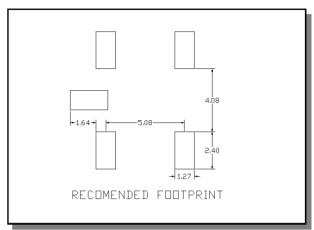
Transformer, 1:2 Transmission Line Balun 5 MHz - 1200 MHz

Rev. V1

Outline Drawing

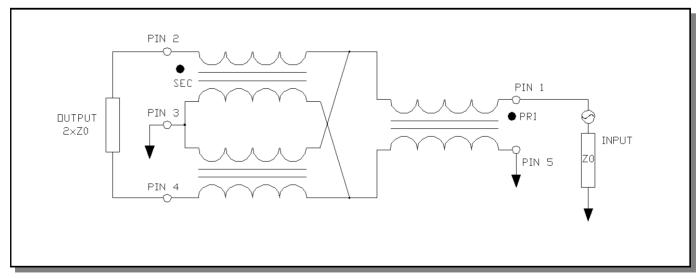


Recommended Footprint



- 1 Dimensions in mm.
- Tolerance: ±0.2mm unless otherwise noted.
- 3. Model number and lot code printed on reel.
- Plating finish: ENIG on both sides, 0.05 to 0.1 µm gold over 3 to 6 µm nickel

Application Circuit



• North America Tel: 800.366.2266 • Europe Tel: +353.21.244.6400 • India Tel: +91.80.43537383 • China Tel: +86.21.2407.1588



Transformer, 1:2 Transmission Line Balun 5 MHz - 1200 MHz

Rev. V1

Tape & Reel Information

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Parameter	Units	Value				
Qty per reel	-	900				
Reel Size	mm	330				
Tape Width	mm	16.00				
Pitch	mm	12.00				
Ao	mm	6.70				
Во	mm	7.50				
Ko	mm	3.60				
Orientation	-	F33				
Reference Application Note ANI-019 for orientation						

Ordering Information

Part Number	Description		
MABA-0110029	Tape & Reel		
MABA-011029-TB	Customer Evaluation Board		

Recommended Maximum Ratings

Parameter	Units	Min	Max
Input Power	mW		250
DC Current	mA		600
Operating Temperature Range	°C	-40	+85

Temperature data available on request