

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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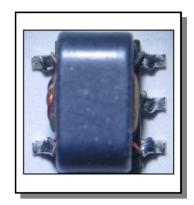


4:1 Step Down Transformer 5 - 200 MHz

V2

Features

- Surface mount
- 4:1 step down transformer
- Excellent performance under DC bias current, even when current flows is imbalanced outputs
- 260°C reflow compatible
- RoHS Compliant, lead-free
- Available on tape & reel



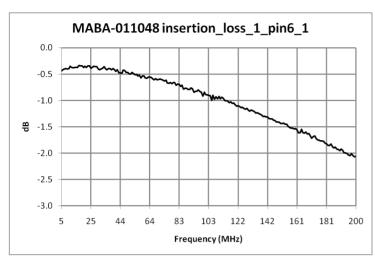
Electrical Specifications: $Z_0 = 75\Omega$, $T_A = 25$ °C, $P_{in} = 0$ dBm

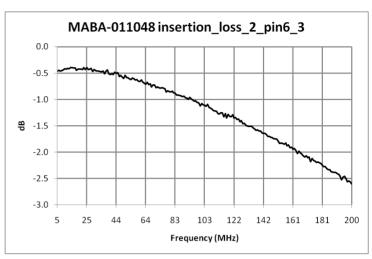
Parameter	Conditions	Units	Min	Тур	Max
Frequency Range		MHz	5		200
Impedance		Ω	-	75	-
Impedance Ratio			-	4:1	-
Insertion Loss 1 (pin6-pin1)	5 - 50 MHz 50 - 150 MHz 150 - 200 MHz	dB dB dB	- - -	0.3 0.8 1.7	0.8 2.2 3.1
Insertion Loss 2 (pin6-pin3)	5 - 50 MHz 50 - 150 MHz 150 - 200 MHz	dB dB dB	- - -	0.4 1.0 2.2	0.8 2.5 3.6
Amplitude Balance	5 - 50 MHz 50 - 150 MHz 150 - 200 MHz	dB dB dB	- - -	0.1 0.2 0.4	±0.4 ±1.0 ±1.4
Phase Balance	5 - 50 MHz 50 - 200 MHz	0		0.6 1.4	±4 ±9
Input Return Loss (pin6)	5 - 25 MHz 25 - 50 MHz 50 - 150 MHz 150 - 200 MHz	dB dB dB dB	17 12 5 3	21 17 10 6	- - -

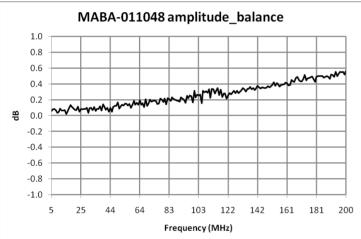


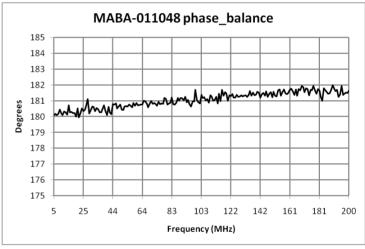
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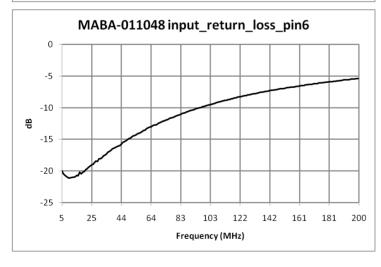
V2

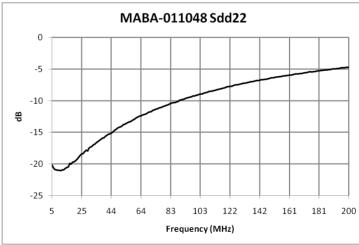












Electrical Specifications: Z_0 = 75 Ω , T_A = 25 $^{\circ}$ C, P_{in} = 0dBm

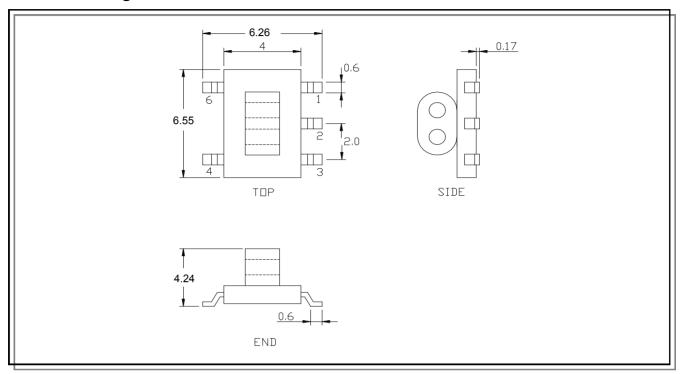


4:1 Step Down Transformer

5 - 200 MHz

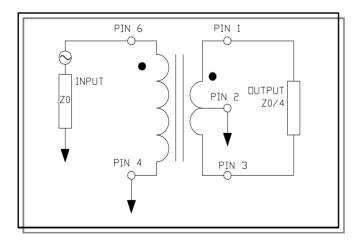
V2

Outline Drawing

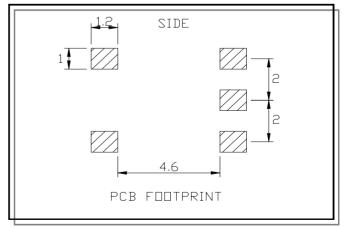


- 1. Dimensions in mm.
- 2. Tolerance: ±0.2mm unless otherwise noted.
- 3. Model number and lot code are printed on the reel.
- 4. Lead Plating: CuSn6
- 5. Lead Finish: SAC-305

Recommended DC bias circuit



Recommended Footprint





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Tape & Reel Information

Parameter	Units	Value	
Qty per reel	-	900	
Reel Size	mm	330	
Tape Width	mm	16.00	
Pitch	mm	12.00	
Ao	mm	6.6	
Во	mm	7.3	
Ko	mm	4.9	
Orientation	-	F26	
Reference Application Note ANI-019 for orientation			

Ordering Information

Part Number	Description		
MABA-011048	Tape & Reel		
MABA-011048-TB	Customer test board		

Recommended Maximum Ratings

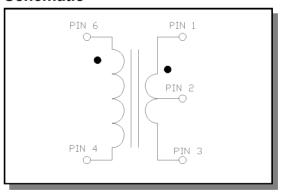
Parameter	Units	Min	Max
Input Power	W		1
Internal Load Dissipation	W		200
Tested up to DC bias current, will perform above this level	mA		900
Operating Temperature Range	°C	-40	+85

Reference Application Note ANI-019 for orientation Full temperature plots available on request

Pin Configuration

Pin No.	Function	
1	Secondary Dot (output1)	
2	Ground (centre tape)	
3	Secondary (output 2)	
4	Primary (RF ground)	
5	Ground (not used)	
6	Primary Dot (input)	

Schematic



MABA-011048



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