



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!



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

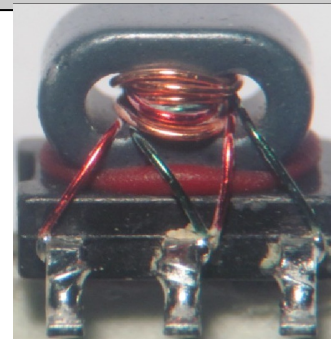


Transformer, 2:1 Flux Coupled Transformer 5MHz - 85 MHz

Rev. V3

Features

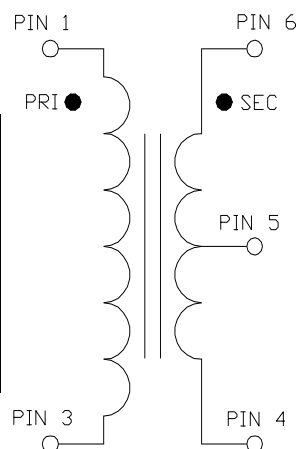
- Surface mount
- 2:1 Impedance ratio
- Centre tap on secondary
- Suitable for DOCSIS 3.0
- RoHS compliant
- Available on tape and reel



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

Parameter	Conditions	Units	Min	Typ	Max
Frequency Range		MHz	5		85
Impedance		Ω		75	
Impedance Ratio				2:1	
Insertion Loss (Pin1 - Pin6)	5 - 50 MHz	dB	-	0.4	0.6
	50 - 85 MHz	dB	-	0.5	0.7
Insertion Loss (Pin1 - Pin4)	5 - 50 MHz	dB	-	0.4	0.6
	50 - 85 MHz	dB	-	0.5	0.7
Amplitude Balance	5 - 50 MHz	dB	-	0.02	± 0.2
	50 - 85 MHz	dB	-	0.04	± 0.3
Phase Balance	5 - 50 MHz	$^\circ$	-	0.1	± 2.0
	50 - 85 MHz	$^\circ$	-	0.3	± 3.0
Input Return Loss (Pin1)	5 - 45 MHz	dB	20	25	-
	45 - 85 MHz	dB	15	19	-

Schematic



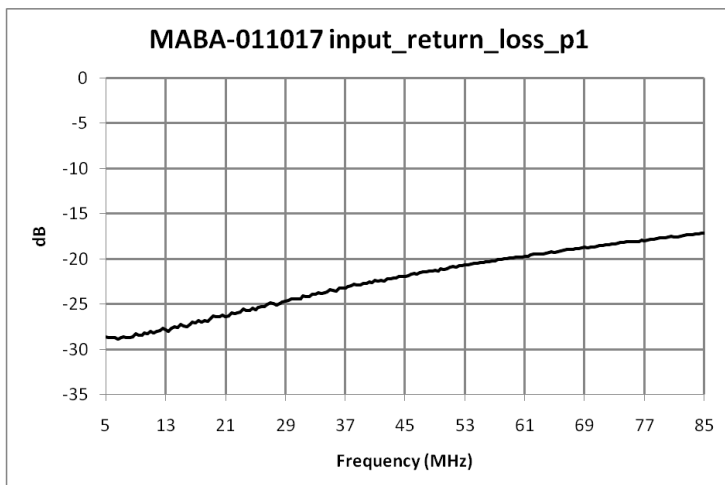
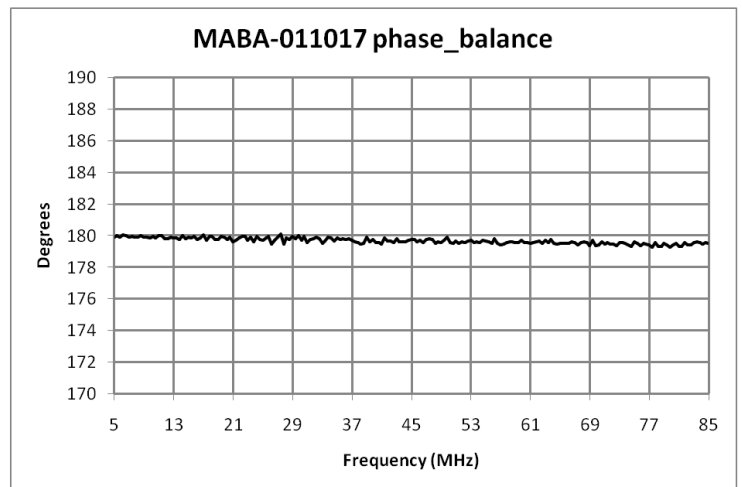
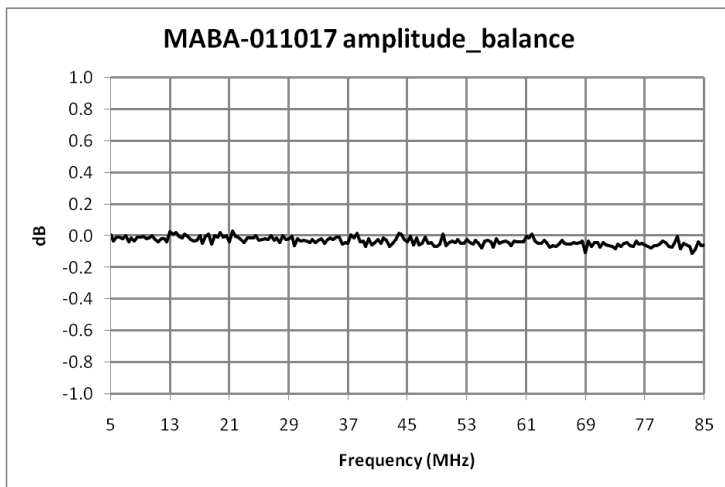
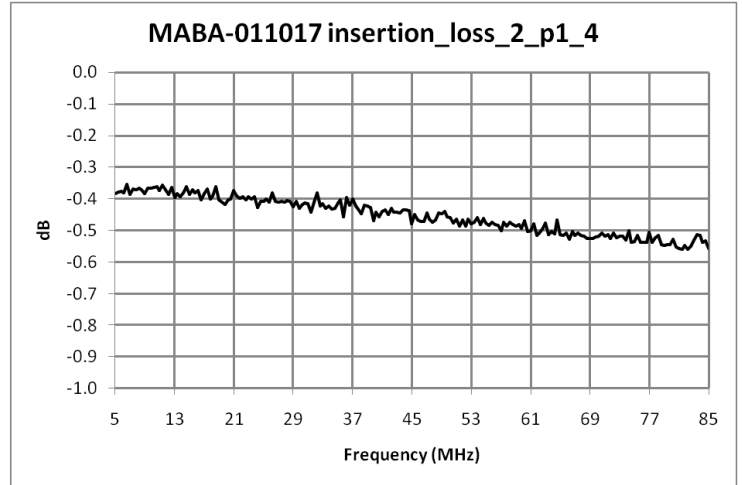
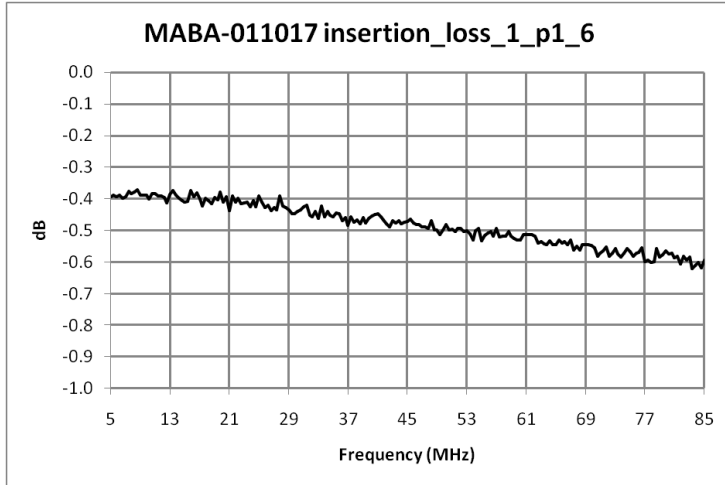
Pin Configuration

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

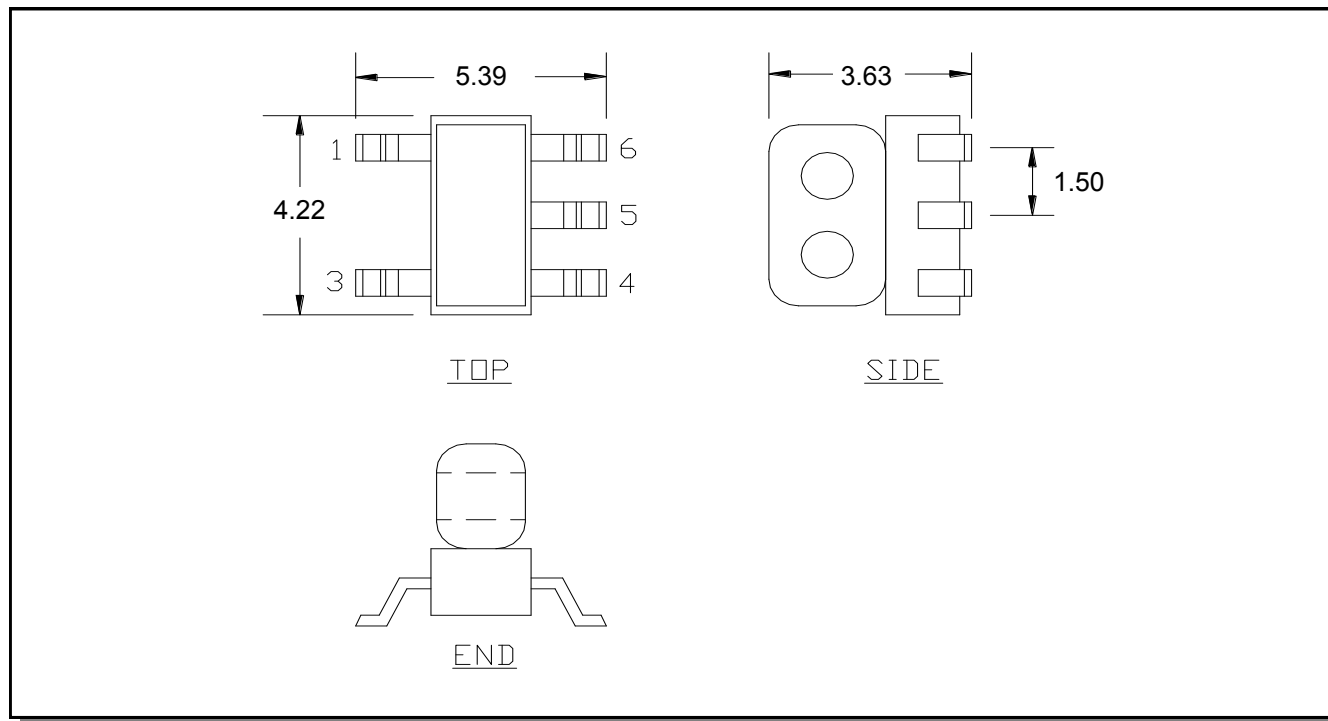
Transformer, 2:1 Flux Coupled Transformer
5MHz - 85 MHz

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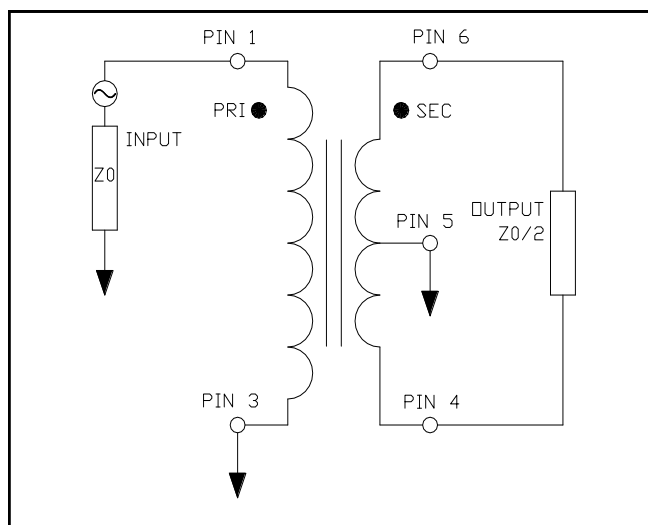


Outline Drawing

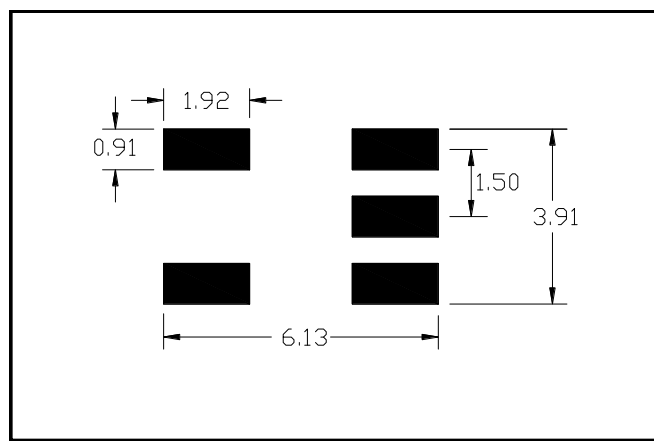


1. Dimensions in mm.
2. Tolerance: ± 0.2 mm unless otherwise noted.
3. Model number and lot code printed on reel.
4. Lead plating (CuSn6) Lead finish SAC-305.

Application Circuit



Recommended Footprint



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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	5.6
B ₀	mm	4.5
K ₀	mm	4.0
Orientation	-	F26
Reference Application note ANI-019 for orientation		

Ordering Information

Part Number	Description
MABA-011017	Tape & Reel
MABA-011017-TB	Customer Evaluation Board

Recommended Maximum Ratings

Parameter	Value
Input Power	At least +28dBm (631mW)
DC Current (tested at 5V)	At least 600mA
Operating Temperature Range	-40°C to +85°C

Temperature data available on request