

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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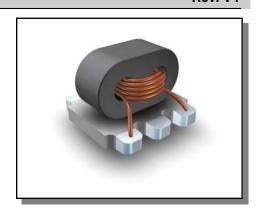




Transformer, 1:1
3 MHz - 200 MHz
RELEASED
Rev. V4

Features

- ♦ 1:1 impedance ratio
- ♦ Surface mount
- ♦ Available on tape and reel
- ♦ 260°C reflow compatible
- ◆ RoHS Compliant and Pb free
- Excellent temperature stability
- \bullet Can be used on 50Ω and 75Ω systems
- ♦ RoHS version of ETC1-1T and MABACT0012



Electrical Specifications: $T_A = 25^{\circ}C$, $Z_0 = 50\Omega$, $P_{in} = 0$ dBm

Parameter	Frequency	Units	Min	Тур	Max
Insertion Loss	3 - 50 MHz 50 - 160 MHz 160 - 200 MHz	dB dB dB	- - -	0.2 0.5 0.8	0.5 1.0 1.2
Amplitude Balance (Nominal 0dB)	3 - 50 MHz 50 - 200 MHz	dB dB	-	0.02 0.06	± 0.1 ± 0.5
Phase Balance (Nominal 180°)	3 - 50 MHz 50 - 200 MHz	0	-	0.2 0.5	± 1.5 ± 5.0
Input Return Loss	3 - 200 MHz 5 - 100 MHz	dB dB	10 15	20 25	-

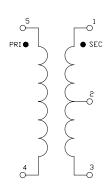
Electrical Specifications: $T_A = 25$ °C, $Z_0 = 75\Omega$, $P_{in} = 0$ dBm

Parameter	Frequency	Units	Min	Тур	Max
Insertion Loss	3 - 5 MHz 5 - 65 MHz 65 - 200 MHz	dB dB dB	- - -	0.5 0.4 0.6	1.0 0.6 1.0
Amplitude Balance (Nominal 0dB)	3 - 65 MHz 65 - 200 MHz	dB dB	-	0.02 0.04	± 0.2 ± 0.3
Phase Balance (Nominal 180°)	3 - 65 MHz 65 - 200 MHz	0	-	0.4 1.2	± 2.0 ± 5.0
Input Return Loss	3 - 5MHz 5 - 65 MHz 65 - 100 MHz 100 - 200 MHz	dB dB dB dB	18 21 19 14	24 29 25 20	- - - -

Pin Configuration

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

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.

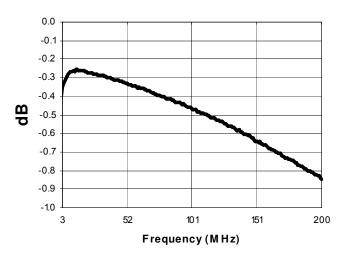
PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology

PRELIMINAÄY: 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.

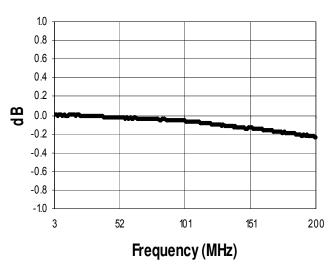


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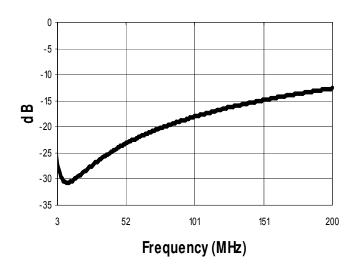
Insertion Loss



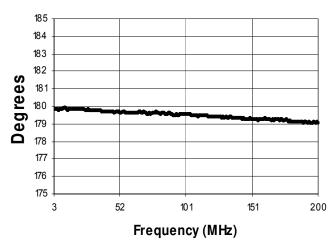
Amplitude Balance



Input Return Loss



Phase Balance



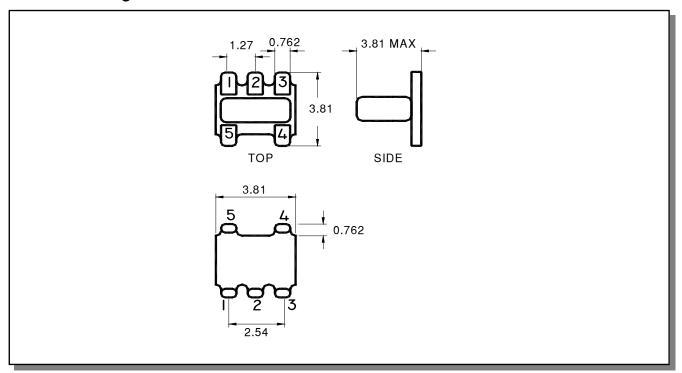
Electrical Specifications: $Z_0 = 50\Omega$, $T_A = 25$ °C, $P_{in} = 0$ dBm

typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in volume is not guaranteed.



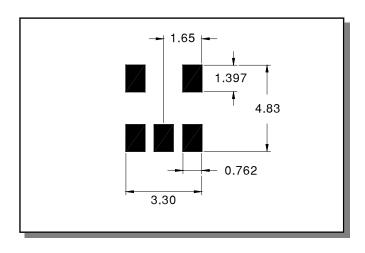
Transformer, 1:1 **RELEASED** 3 MHz - 200 MHz Rev. V4

Outline Drawing



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

Recommended Footprint



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.



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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	4.00
Во	mm	4.00
Ko	mm	2.90
Orientation	-	F5

Reference Application Note ANI-019 for orientation

Ordering Information

Part Number	Description
MABA CT0062	Tape & Reel
MABA-008115-CT62TB	Customer Evaluation Board

Recommended Maximum Ratings

Parameter	Units	Min	Max
Input Power	mW		250
DC Current	mA		200
Operating Temperature Range	°C	-40	+85
Storage Temperature Range	°C	-55	+125

ECO History

Rev	Date	Description	Ву
V4	10 May 2010	Corrected the case style drawing and changed to the new format	MOC

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