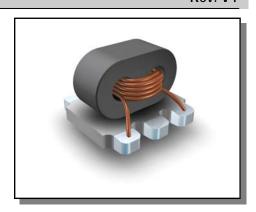
MABACT0062



Transformer, 1:1 RELEASED 3 MHz - 200 MHz 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: $T_A = 25$ °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	-

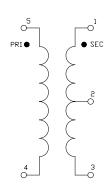
Electrical Specifications: $T_A = 25$ °C, $Z_0 = 75\Omega$, $P_{in} = 0$ dBm

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

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 • Europe Tel: +353.21.244.6400

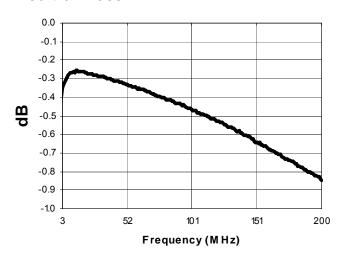
• India Tel: +91.80.43537383 • China Tel: +86.21.2407.1588



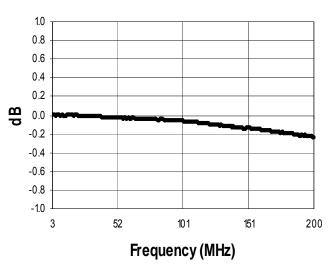
Transformer, 1:1
3 MHz - 200 MHz
RELEASED

Rev. V4

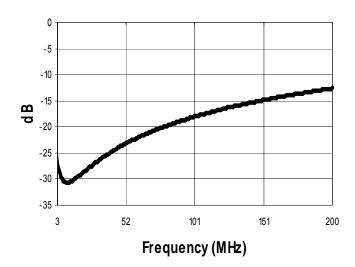
Insertion Loss



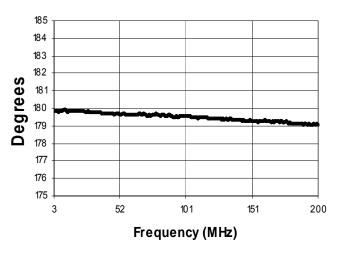
Amplitude Balance



Input Return Loss



Phase Balance



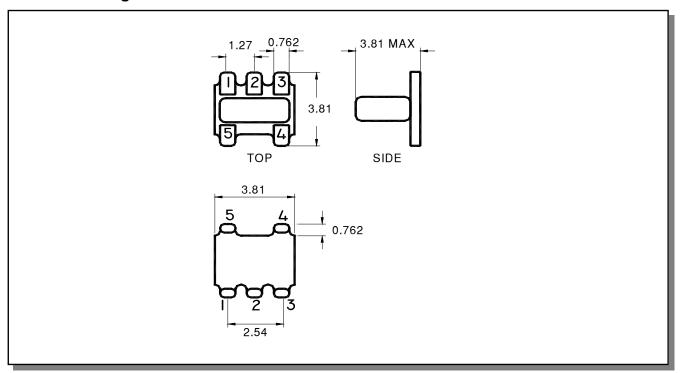
Electrical Specifications: $Z_0 = 50\Omega$, $T_A = 25$ °C, $P_{in} = 0$ dBm

MABACT0062



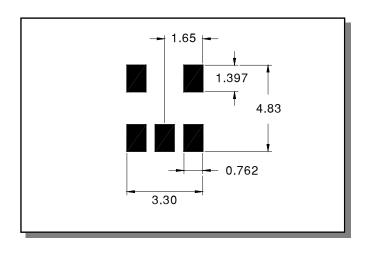
Transformer, 1:1 **RELEASED** 3 MHz - 200 MHz Rev. V4

Outline Drawing



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

Recommended Footprint



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

MABACT0062



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

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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