MABA-010544-CT0071

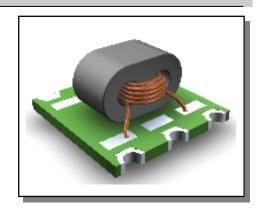


1:1 Flux Coupled Transformer 0.3-200MHz

Rev. V1

Features

- ◆ Surface mount
- ♦ 1:1 Impedance
- ♦ 260°C reflow compatible
- ♦ RoHS Compliant
- ♦ Centre tap on secondary



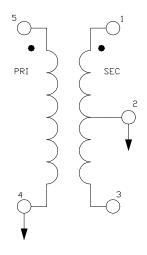
Electrical Specifications: $Z_0 = 75\Omega$, $T_A = 25^{\circ}C$

Parameter	Conditions	Units	Min	Тур	Max
Insertion Loss 1 (Pin 1-5)	0.3 - 5 MHz 5 - 200 MHz	dB dB	-	1.0 0.5	2.6 0.9
Insertion Loss 2 (Pin 3-5)	0.3 - 10 MHz 10 - 200 MHz	dB dB	-	1.0 0.4	2.6 0.75
Amplitude Unbalance (Nominal 0dB)	0.3 - 200 MHz	dB	-	±0.1	±0.3
Phase Unbalance (Nominal 180°)	0.3 - 200 MHz	0	-	±0.3	±3.0
Input Return Loss	0.3 - 5 MHz 5 - 120 MHz 120 - 200 MHz	dB dB dB	5 19 15	13 27 21	- - -

Pin Configuration

Pin No.	Function
1	Secondary Dot
2	Secondary centre tap
3	Secondary
4	Primary
5	Primary Dot

Schematic



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.

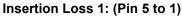
North America Tel: 800.366.2266
India Tel: +91.80.43537383
China Tel: +86.21.2407.1588
Visit www.macomtech.com for additional data sheets and product information.

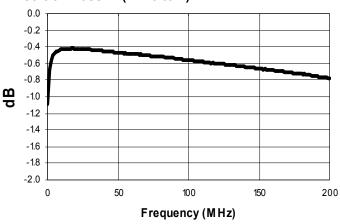


1:1 Flux Coupled Transformer 0.3-200MHz

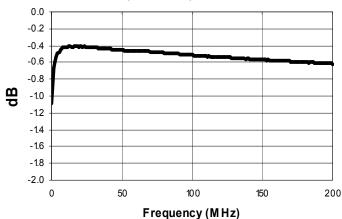
Rev. V1

Typical Performance Curves: $T_A = 25^{\circ}C$, $Z_0 = 75\Omega^{1}$

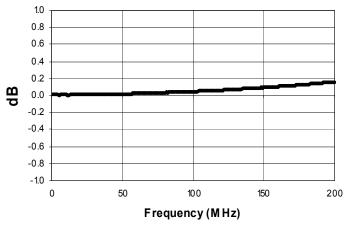




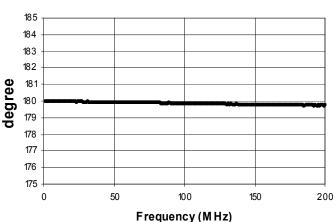
Insertion Loss 2: (Pin 5 to 3)



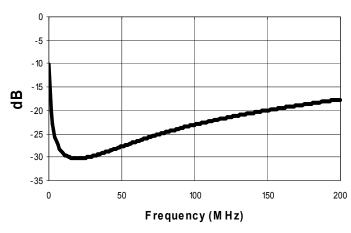
Amplitude Unbalance



Phase Balance



Input Return Loss



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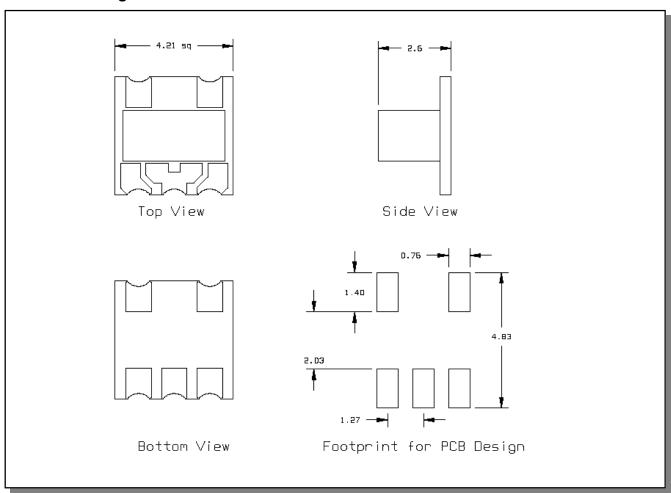
MABA-010544-CT0071



1:1 Flux Coupled Transformer 0.3-200MHz

Rev. V1

Outline Drawing



- Dimensions in mm.
- Tolerance: ±0.2mm unless otherwise noted.
- 3. Model number and lot code are printed on the reel.
- Finish: Electroless nickel immersion gold

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MABA-010544-CT0071



1:1 Flux Coupled Transformer 0.3-200MHz

Rev. V1

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	4.5
Во	mm	4.5
Ko	mm	2.73
Orientation	-	F5
	•	•

Reference Application Note ANI-019 for orientation

Ordering Information

Part Number	Description
MABA-010544-CT0071	Tape & Reel
MABA-008350-CT71TB	Customer Evaluation Board

Recommended Maximum Ratings

Parameter	Units	Min	Max
Input Power	mW		250
DC Current	mA		240
Operating Temperature Range	°C	-40	+85
Storage Temperature Range	°C	-55	+125

Full temperature plots available on request

ECO History

Rev	Date	Description	ECN NO.
V1	30 Sep, 2010	New Release	20101528

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