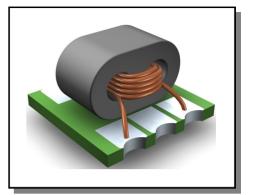
1:1 flux coupled Transformer 3 MHz - 200 MHz

Features

- 1:1 flux coupled transformer
- Surface mount
- Centre Tap on Secondary
- ♦ 260°C reflow compatible
- ♦ RoHS Compliant
- Suitable for all CATV, Broadband applications.



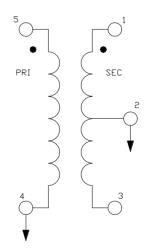
Electrical Specifications: $Z_0 = 75\Omega$, $T_A = 25^{\circ}C$, $P_{in} = 0dBm$

Parameter	Conditions	Units	Min	Тур	Max
Insertion Loss (pin 5-1)	3 - 5 MHz 5-200 MHz	dB dB	-	1.0 0.5	2.6 0.9
Insertion Loss (pin 5-3)	3 - 10 MHz 10-200 MHz	dB dB	-	1.0 0.4	2.6 0.75
Amplitude Balance	3 - 200 MHz	dB	-	0.1	±0.3
Phase Balance	3 - 200 MHz	0	-	0.3	±3.0
Input Return Loss	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



1

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
Visit www.macomtech.com for additional data sheets and product information.

Solutions has under development. Performance is based on engineering teach Specifications are typical. Mechanical outline has been fixed. Erformering samples and/or test cata may be available (AP-SOM Technology Solutions Irc. and its affiliates reserve the right to make Commitment to produce in volume is not outpracticed.

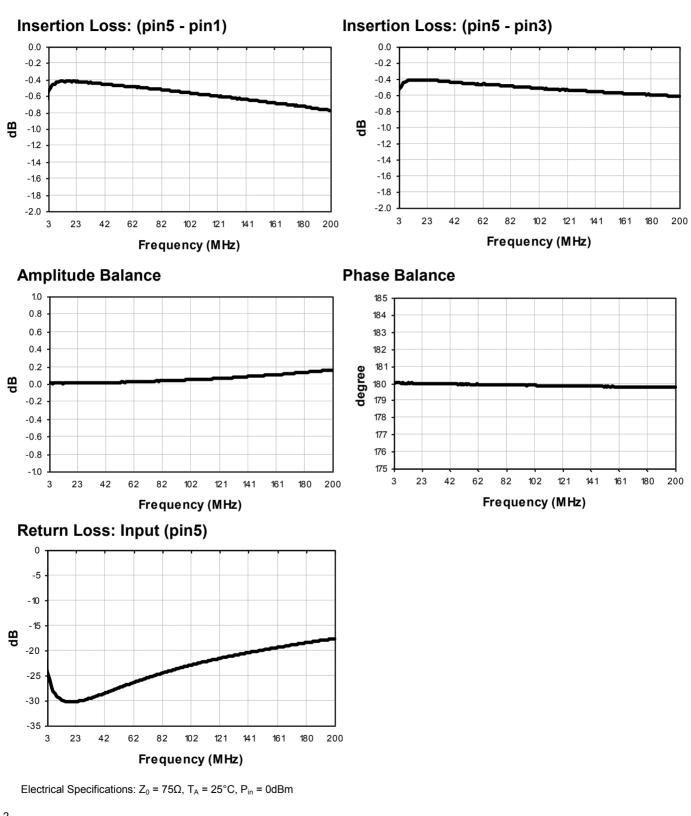




Technology Solutions

1:1 flux coupled Transformer 3 MHz - 200 MHz

Rev. V3



²

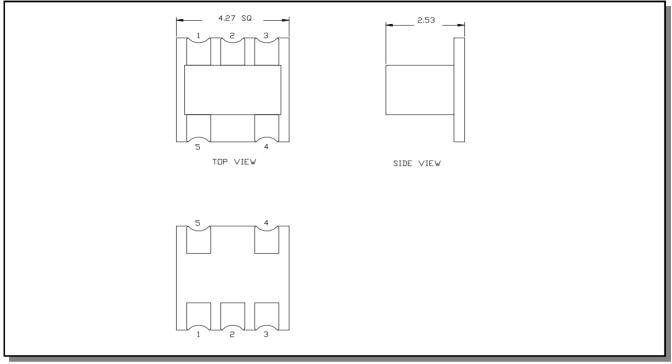
is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed. **PRELIMINARY:** Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering test. Specifications are typical. Mechanical outline has been fixed. Indigination samples and/or test cata nay be available A COM Technology Solutions In 2. a nutits affiliates reserve the right to make an less of the product(s) of information bun ained herein without notice. typical. Mechanical outline has been fixed. Ergin Commitment to produce in volume is not pueran

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

• North America Tel: 800.366.2266 • Europe Tel: +353.21.244.6400 • 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 3 MHz - 200 MHz

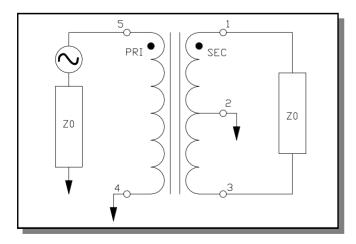
Outline Drawing



1. Dimensions in mm.

- 2. Tolerance: ±0.2mm unless otherwise noted.
- 3. Model number and lot code printed on reel.
- 4. Plating finish: Electreless nickel immersion Gold 3 - 5 microns nickel 0.05 - 0.15 microns gold.

Application Circuit

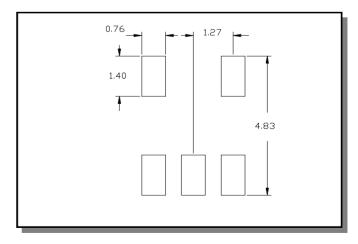


ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions

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

Recommended Footprint



3





Rev. V3

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

Visit www.macomtech.com for additional data sheets and product information.

Solutions has under development. Performance is based on encineer nation. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test cata may be available commitment to produce in volume is not puralitied. A CONTechnology Solutions In C. a put its affiliates reserve the right to make an est of the product(s) of information contained herein without notice.

1:1 flux coupled Transformer 3 MHz - 200 MHz



Tape & Reel Information

Parameter	Units	Value	
Qty per reel	-	2000	
Reel size	mm	330	
Tape width (W)	mm	12.0	
Pitch (P ₁)	mm	8.0	
A ₀	mm	4.50	
B ₀	mm	4.50	
K ₀	mm	2.73	
Orientation	-	F5	
Reference Application note ANI-019 for orientation			

Ordering Information

Part Number	Description
MABACT0071	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	+100

Temperature data available on request

ECO History

Rev	Date	Description	ECO
V1	26 Jul 2005	New release	20047786
V2	03 Nov 2010	Change start Frequency from 0.3 to 3 MHz	20101811
V3	09/12/2011	Update part orientation.	CO-002862

⁴

Solutions has under development. Performance is based on engineering teach Specifications are typical. Mechanical outline has been fixed. Endingen and/or test cata may be available (AP-COM Technology Solutions Ir.c. and its affiliates reserve the right to make Commitment to produce in volume is not outpraticed.

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
Solutions 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 is based on target specifications of the specification of the specification