

17th March 2016 Digi-Key Corporation 701 Brooks Ave South Thief River Falls, Minnesota 56701

ATTN: Quality/Purchasing Manager

Subject: Packaging Tape and Reel Carrier Pocket – Depth Change.

PCN-00844

Dear Valued Customer:

Please accept this PCN letter as formal notification for the change of M/A-COM Technology Solutions part number(s) shown below.

The device(s) listed on this page are the affected device(s).

According to our records, this device has been purchased by your company within the past twenty-four (24) months.

M/A-COM Part Number(s):

MABACT0059

Technical details of this change notice follow on the next page(s).

Please contact me if you have any questions.

Sincerely,

Alan Miller

Product Line Manager M/A-COM Technology Solutions Cell: +978-427-7482

Email: Alan. Miller@macomtech.com



PCN Number: 00844		PCN Date:	17 th March 2016
Title: Change to Tape	e and Reel carrier pocket depth.		
Proposed 1st Ship Date:		Estim	ated Sample Availability:
Effective Immediate	ly		N/A
Change Type:			
Assembly Site	Design	Electrical Specification	
Test Site	Assembly Process	Mechanical Specification	
Test Process	Assembly Materials	Packing/Shipping/Labeling X	
PCN Details			
Description of Chang	e:		
	e Tape and Reel carrier pocket dep dimension in the Tape and Reel Inf		
This is reflected as Ko See Updated Data She Reason for Change:	dimension in the Tape and Reel Inf	ormation table on pa	ge 4 of the Data Sheet.
This is reflected as Ko See Updated Data She Reason for Change: To standardize tape an	dimension in the Tape and Reel Inf eet in Appendix I.	ormation table on pa	ge 4 of the Data Sheet.
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This is reflected as Ko See Updated Data She Reason for Change: To standardize tape an Products Affected: MABACT0059 Anticipated impact or None – No change to fe	dimension in the Tape and Reel Inf eet in Appendix I.	ormation table on par	ge 4 of the Data Sheet.
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This is reflected as Ko See Updated Data She Reason for Change: To standardize tape an Products Affected: MABACT0059 Anticipated impact or None – No change to fe Depth of Packaging Ta	dimension in the Tape and Reel Infect in Appendix I. Ind reel carrier pocket depth across N Fit, Form, Function: form, fit or function of device. pe and Reel carrier pocket is changed	ormation table on particular of the second s	ge 4 of the Data Sheet.

Appendix I:

MABACT0059

1:1 Transmission Line Transformer 4.5 to 3000 MHz

Features

- Surface mount
- Wide frequency range
- 1:1 impedance
- Pb free
- 260°C reflow compatible
- RoHS Compliant

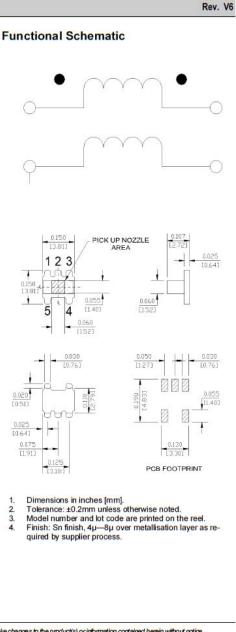
Description

1:1 Transmission Line Transformer. The windings are welded to the package substrate for improved reliability and to eliminate lead content. This Transformer is ideally suited for CATV and Satellite STB/Subscriber applications.



Pin Configuration

Pin No.	Function	
1	Secondary Dot	
2	Not Connected	
3	Secondary	
4	Primary	
5	Primary Dot	



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1



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MABACT0059

1:1 Transmission Line Transformer 4.5 to 3000 MHz

Rev. V6

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

Parameter	Conditions	Units	Min	Тур	Max
Frequency Range	4.5 – 3000 MHz				
Insertion Loss 1 (Pin 4 to Pin 3)	4.5 – 1000 MHz 1000 – 2000 MHz 2000 – 2500 MHz 2500 – 3000 MHz	dB dB dB dB	-	0.07 0.63 1.93 4.20	1.0 2.0 5.0 6.5
Insertion Loss 2 (Pin 4 to Pin 1)	4.5 – 1000 MHz 1000 – 2000 MHz 2000 – 2500 MHz 2500 – 3000 MHz	dB dB dB dB	-	0.29 0.08 2.00 5.30	1.0 2.0 6.0 8.4
Amplitude Balance (Nominal 0dB)	4.5 – 20 MHz 20 – 1000 MHz	dB dB	-	±1.0 ±0.3	±1.2 ±1.0
Phase Balance (Nominal 180 ⁰)	4.5 – 1000 MHz	0	-	±0.03	±20
Input Return Loss (Pin 4)	4.5 – 1000 MHz	dB	15	26.30	-

Absolute Maximum Ratings

Parameter	Units	Min	Max
Input Power	mW		250
DC Current	mA		30
Operating Temperature Range	°C	-40	+85

Full temperature plots available on request

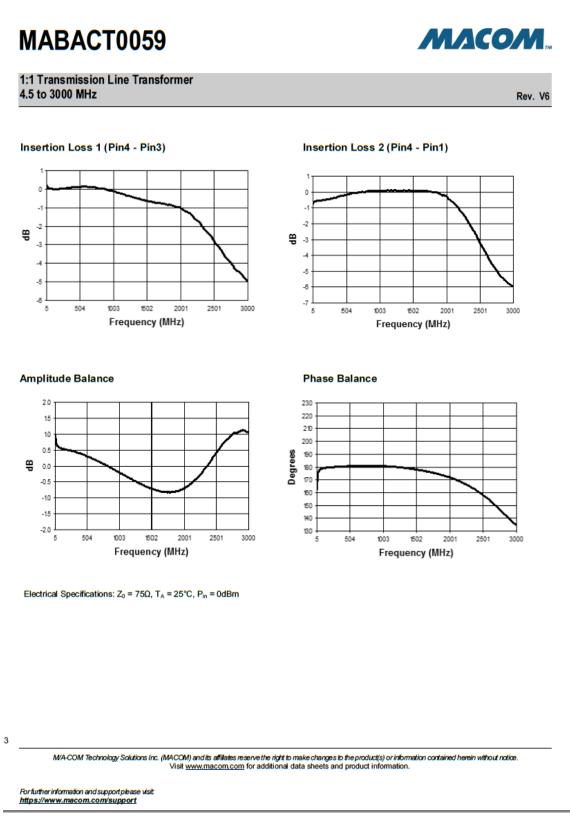
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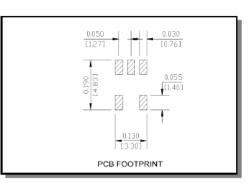
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1:1 Transmission Line Transformer 4.5 to 3000 MHz

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	4.05	
Во	mm	4.30	
Ко	mm	3.0	
Orientation	-	F5	
Reference App Note ANI-019 for orientation			

Recommended Footprint



Ordering Information

Part Number	Description
MABACT0059	Tape & Reel

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4





MABACT0059

1:1 Transmission Line Transformer 4.5 to 3000 MHz



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5