

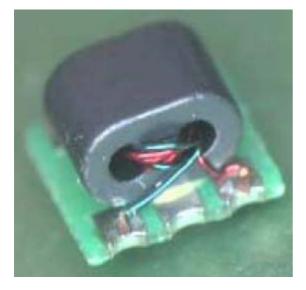
1:1 Tx Line Balun Transformer 4.5-3000MHz

Features

- Surface Mount
- 1:1 Impedance
- 260°C Reflow Compatible
- RoHS* Compliant
- RoHS version of MABACT0034.
- Available on Tape and Reel. Reel quantity 2000

Description

M/A-COM's MABA-007327-CT1A40 is a 1:1 Tx Balun transformer in a low cost, surface mount package. Ideally suited for high volume CATV/Broadband applications.



Pin Configuration

1

Pin No.	Function	
1	Secondary (output 1)	
2	Not Connected (Ground)	
3	Secondary Dot (output 2)	
4	Primary (Ground)	
5	Primary Dot (Input)	

Note: Reference Application Note M513 for reel size information.

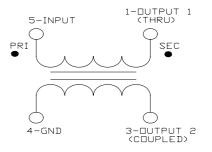
* Restrictions on Hazardous Substances, European Union Directive 2002/95/EC.

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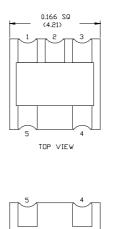
Schematic

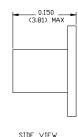
RoHS

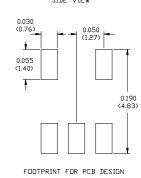
Compliant



Case Style: SM-164







Dimensions in inches [mm] Tolerance: .xx ± .02, .xxx ± .010

Ordering Information

BOTTOM VIEW

Part Number	Package
MABA-007327-CT1A40TR	2000 piece reel
MABA-007327-CT1ATB	Customer Test Board

- North America Tel: 800.366.2266 / Fax: 978.366.2266
- Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300
- Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298

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



V1P





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

Parameter	Test Conditions	Units	Min	Тур	Max
Insertion Loss	4.5 - 1000 MHz 1000 - 2000 MHz 2000 - 3000 MHz	dB dB dB		0.8 1.6 2.5	1.0 2.0 3.5
Amplitude Unbalance	4.5 - 3000 MHz	dB	-	±0.5	±1.0
Phase Unbalance	4.5 - 3000 MHz	0	-	±10	±20

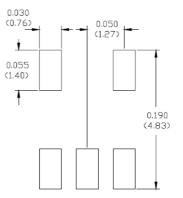
Absolute Maximum Ratings ^{1,2}

Parameter	Absolute Maximum		
RF Power	250mW		
DC current	30mA		
Operating Temperature	-40°C to +85°C		
Storage Temperature	-40°C to +85°C		

1. Exceeding any one or combination of these limits may cause permanent damage to this device.

2. M/A-COM does not recommend sustained operation near these survivability limits.

Recommended PCB Configuration



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2

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RoHS Compliant

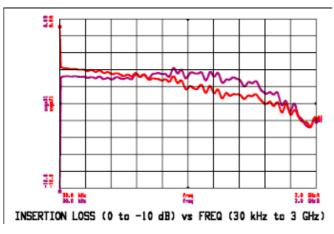
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MABA-007327-CT1A40 V1P

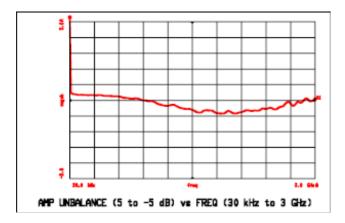
MACCM

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

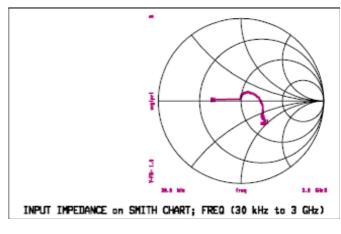
Insertion Loss



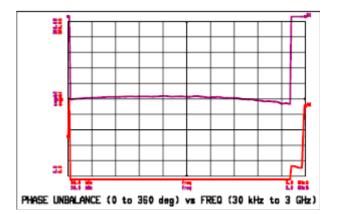
Amplitude Unbalance



Input Return Loss



Phase Balance



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