

**1:1 Tx Line Balun Transformer
4.5-3000MHz**

**MABA-007327-CT1A40
V1P**

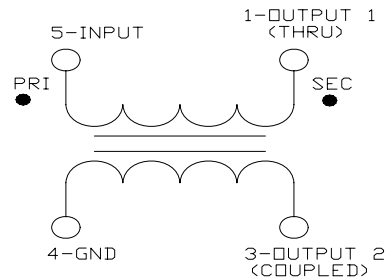
Features

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

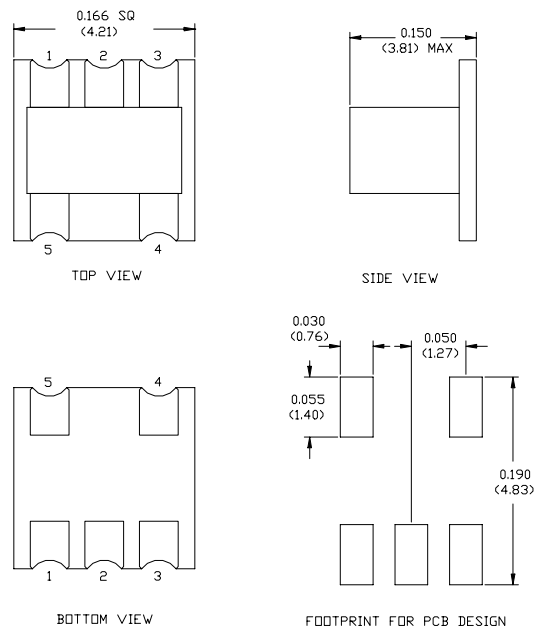
Description

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.

Schematic



Case Style: SM-164



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

Pin Configuration

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.

Ordering Information

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

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

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

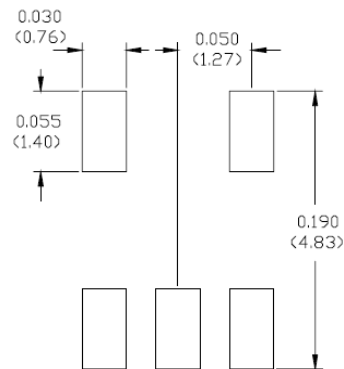
Parameter	Test Conditions	Units	Min	Typ	Max
Insertion Loss	4.5 - 1000 MHz	dB	-	0.8	1.0
	1000 - 2000 MHz	dB	-	1.6	2.0
	2000 - 3000 MHz	dB	-	2.5	3.5
Amplitude Unbalance	4.5 - 3000 MHz	dB	-	± 0.5	± 1.0
Phase Unbalance	4.5 - 3000 MHz	$^\circ$	-	± 10	± 20

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

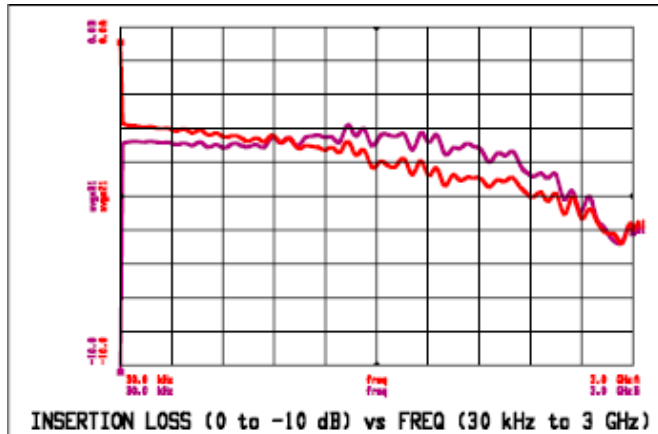


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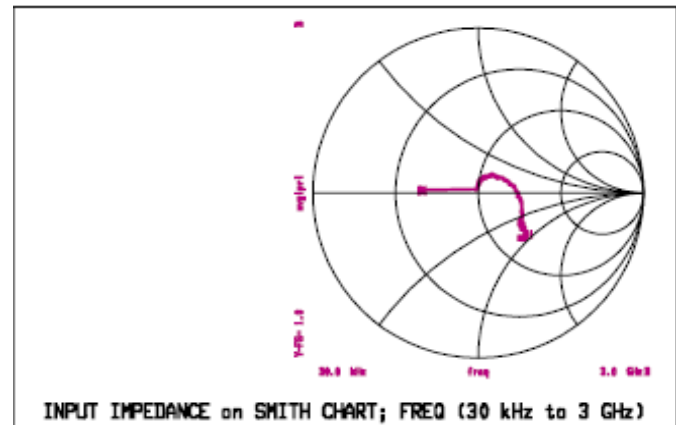
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Typical Performance Curves: $T_A = 25^\circ\text{C}$, $Z_0 = 75\Omega$

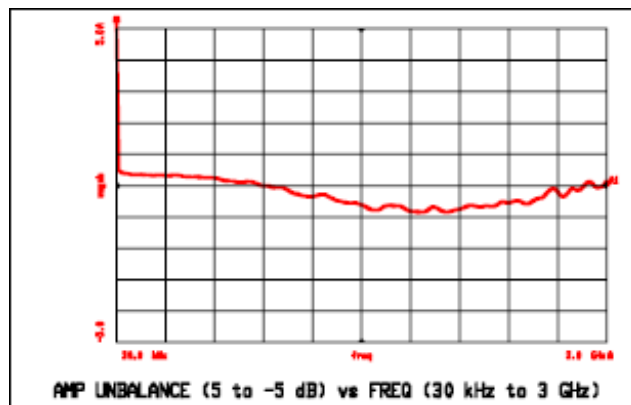
Insertion Loss



Input Return Loss



Amplitude Unbalance



Phase Balance

