MABA-007327-CT1A40



M/A-COM Products

Part Status: Released Rev. V1

1:1 Tx Line Balun Transformer

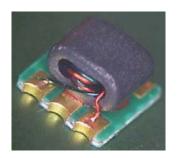
4.5 - 3000 MHz

Features

- Surface Mount
- 1:1 Impedance
- 260°C Reflow Compatible
- **RoHS Compliant**
- Available on Tape and Reel

Description

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



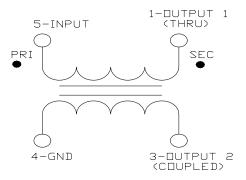
Pin Configuration

Function	Pin Number			
Secondary Dot (output 1)	1			
Not Connected (ground)	2			
Secondary (output 2)	3			
Primary (Ground)	4			
Primary Dot (Input)	5			

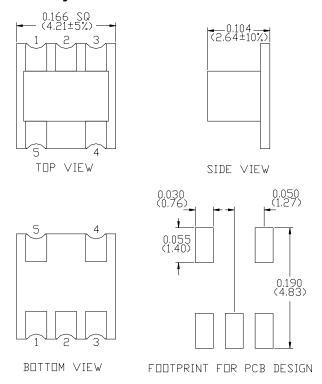
Ordering Information

Parameter	Package
MABA-007327-CT1A40	2000
MABA-007327-CT1ATB	Customer Test Board

Schematic



Case Style SM-164



Dimensions are inches (millimetres) ±0.015 (0.38) unless otherwise specified.

- North America Tel: 800.366.2266 Europe Tel: +353.21.244.6400
- India Tel: +91.80.4155721
- China Tel: +86.21.2407.1588 Visit www.macomtech.com for additional data sheets and product information.

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1:1 Tx Line Balun Transformer

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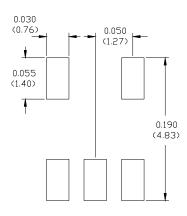
Electrical Specifications: $T_A = 25$ °C, $Z_0 = 75\Omega$

Parameter	Test Conditions	Units	Min.	Тур.	Max.
Frequency Range	4.5 – 3000 MHz				
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 Balance	4.5 – 3000 MHz	dB	-	0.5	±1.0
Phase Balance	4.5 – 3000 MHz	0	ı	10	±20

Absolute Maximum Ratings

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

Recommended PCB Configuration



FOOTPRINT FOR PCB DESIGN

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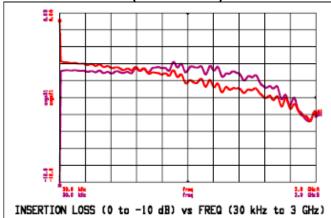
1:1 Tx Line Balun Transformer

4.5 - 3000 MHz

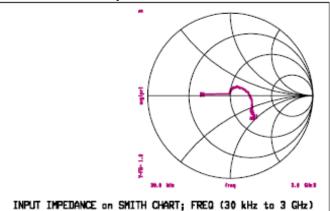
M/A-COM Products Part Status: Released Rev. V1

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

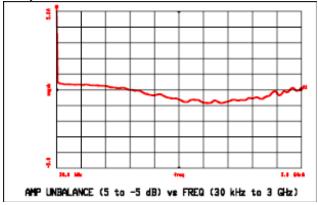
Insertion Loss 1 (Pin4 - Pin1)



Return Loss: Input



Amplitude Balance



Phase Balance



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