MABA-009092-CT1A40



1.33:1 Transmission Line Balun Transformer 5 - 1000 MHz

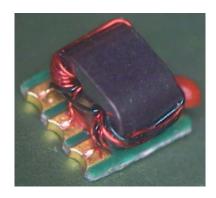
M/A-COM Products Part Status: ETRR Rev. V1

Features

- Surface Mount
- 1.33:1 Impedance
- 75Ω single ended to 100Ω Balance
- **RoHS Compliant**
- Available on Tape and Reel

Description

M/A-COM's MABA-009092-CT1A40 is a 1.33:1 RF Transmission Line Transformer in a low cost surface mount package. Ideally suited for high volume CATV/Broadband applications.



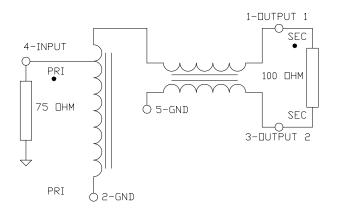
Pin Configuration

Function	Pin Number			
Secondary Dot (output 1)	1			
Primary (ground)	2			
Secondary (output 2)	3			
Primary Dot (Input)	4			
(ground)	5			

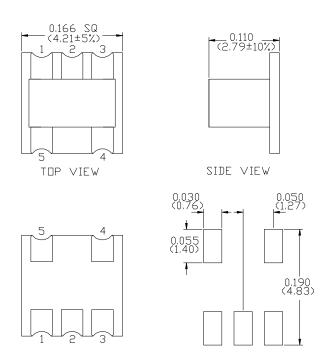
Ordering Information

Parameter	Package
MABA-009092-CT1A40	2000
MABA-009092-CT1ATB	Customer Test Board

Schematic



Case Style SM-164



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

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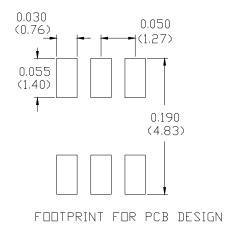
Electrical Specifications: $T_A = 25^{\circ}C$, $Z_0 = 75\Omega$

Parameter	Test Conditions	Units	Min.	Тур.	Max.
Frequency Range	5 – 1000 MHz				
Insertion Loss 1 (Pin 4 to Pin 1)	5 – 50 MHz	dB	_	0.3	0.4
, , , ,	50 – 870 MHz	dB	_	0.6	1.8
	870 – 1000 MHz	dB	_	1.75	2.4
Insertion Loss 2 (Pin 4 to Pin 3)	5 – 50 MHz	dB	_	0.94	1.4
	50 – 870 MHz	dB	_	0.7	1.2
	870 – 1000 MHz	dB	_	1.0	1.5
Amplitude Balance	5 – 50 MHz	dB	_	0.7	±1.3
	50 – 870 MHz	dB	_	0.13	±1.0
	870 – 1000 MHz	dB	_	0.74	±1.4
Phase Balance	5 – 50 MHz	0	_	4	±16
	50 – 1000 MHz	0	_	5	±9
Input Return Loss (Pin 4)	5 – 50 MHz	dB	13	23	_
	50 – 400 MHz	dB	17	27	_
	400 – 870 MHz	dB	9	17	_
	870 – 1000 MHz	dB	8	12	_

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



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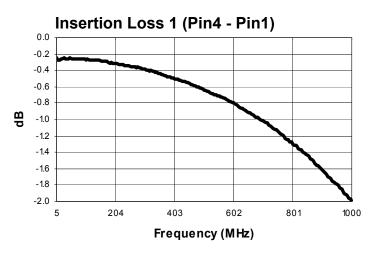
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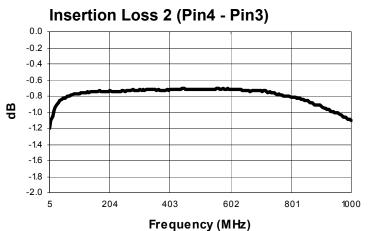


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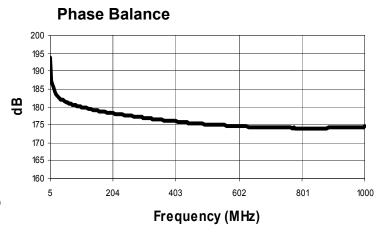
M/A-COM Products
Part Status: ETRR Rev. V1

Typical Performance: $T_A = 25^{\circ}C$, $Z_0 = 75\Omega^{1}$

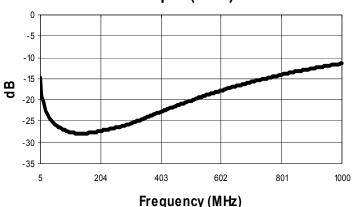




Amplitude Balance 1.0 8.0 0.6 0.4 0.0 -0.2 -0.4 -0.6 -0.8 204 602 801 1000 5 Frequency (MHz)



Return Loss: Input (Pin4)



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