MABA-009232-CT4A4B

ETyco Electronics

M/A-COM Products

Released, Rev. V1

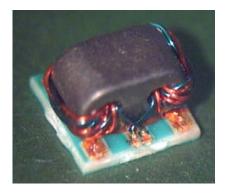
Transformer, 4:1 transmission line balun 5 to 1200 MHz

Features

- Surface mount
- 4:1 Impedance ratio
- Can be used in both 50Ω and 75Ω systems
- 260°C reflow compatible
- RoHS* compliant, lead free
- Available on tape and reel.

Description

M/A Com's MABA-009232-CT4A4B is a 4:1 RF transmission line transformer in a low cost, surface mount package. Ideally suited for broadband CATV applications.



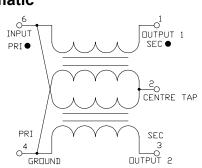
Pin configuration

1

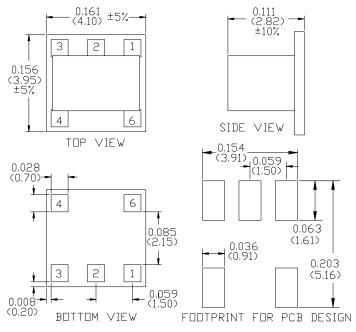
Pin no.	Function		
1	Secondary dot (Output 1)		
2	Centre tap (Ground)		
3	Secondary (Output 2)		
4	Primary (Ground)		
6	Primary dot (Input)		

Note: Reference Application Note M513 for reel size information.

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



Case style: SM-187



Dimensions in inches [mm] Tolerance: .xx \pm .02, .xxx \pm .010, unless otherwise stated

Ordering information

Part number	Description		
MABA-009232-CT4A4B	2000 piece reel		
MABA-009232-CT4ATB	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.

M/A-COM Inc. and its affiliates reserve the right to make changes to the product's or information contained herein without notice.

Schematic

ADVANCED: Data Sheets contain information regarding a product M/A-COM is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed. PRELIMINARY: Data Sheets contain information regarding a product M/A-COM has under develop-

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Electrical Specifications: $T_A = 25^{\circ}C$, $Z_0 = 50\Omega$

Parameter	Test Conditions	Units	Min	Тур	Max
Insertion Loss 1	5 - 450 MHz	dB	-	0.8	1.2
(Pin 6 to 1)	450 - 1200 MHz	dB		1.3	2.6
Insertion Loss 2 (Pin 6 to 3)	5 - 450 MHz 450 - 870 MHz 870 - 1200 MHz	dB dB dB	-	0.8 1.3 2.2	1.2 2.5 3.8
Amplitude Unbalance	5 - 750 MHz	dB		0.05	±1.0
(Nominal 0dB)	750 - 1200 MHz	dB		0.6	±2.6
Phase Unbalance (Nominal 180°)	5 - 50 MHz 50 - 870 MHz 870 - 1200 MHz	0 0 0	- - -	0.4 3.8 5.4	±2 ±15 ±18
Input Return Loss	5 - 50 MHz	dB	15	23	-
	50 - 650 MHz	dB	10	17	-
	650 - 1200 MHz	dB	7	11	-

Absolute maximum ratings

Parameter	Absolute maximum		
Max input power	250mW		
DC current	200mA		
Operating Temperature	-40°C to +85°C		
Storage Temperature	-40°C to +85°C		

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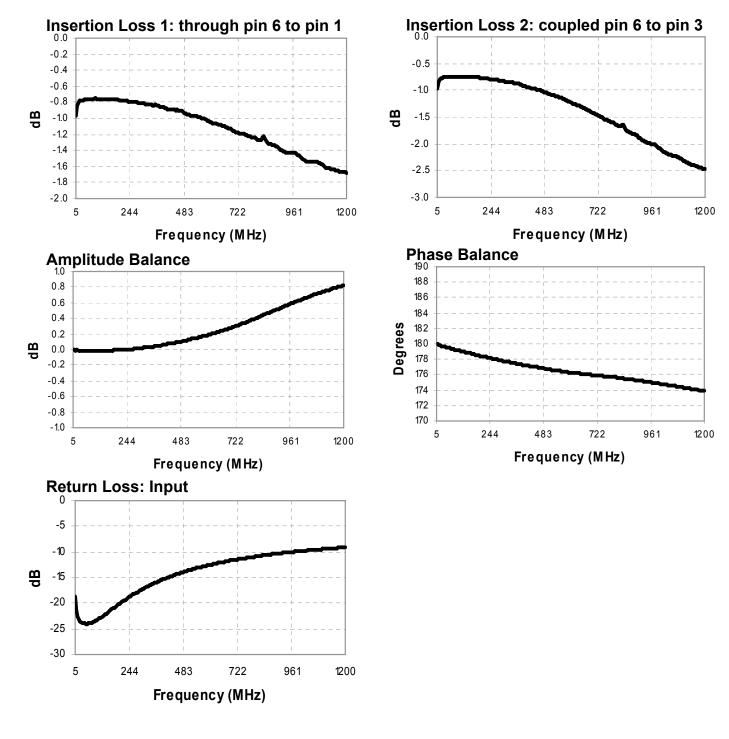
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Typical Performance Curves: $T_A = 25^{\circ}C$, $Z_0 = 50\Omega$



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