MABA-009232-CT4A4B



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

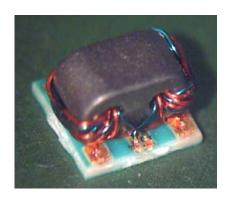
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Features

- 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.

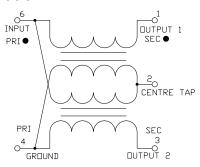


Pin configuration

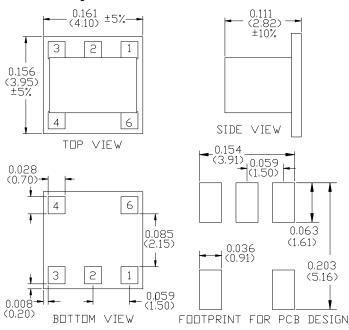
Pin no.	Function	
1	Secondary dot (Output 1)	
2	Centre tap (Ground)	
3	Secondary (Output 2)	
4	Primary (Ground)	
6	Primary dot (Input)	

Note: Reference Application Note $\boldsymbol{M513}$ for reel size information.

Schematic



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		

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

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Electrical Specifications: $T_A = 25$ °C, $Z_0 = 50\Omega$

Parameter	Test Conditions	Units	Min	Тур	Max
Insertion Loss 1 (Pin 6 to 1)	5 - 450 MHz 450 - 1200 MHz	dB dB	-	0.8 1.3	1.2 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 (Nominal 0dB)	5 - 750 MHz 750 - 1200 MHz	dB dB	-	0.05 0.6	±1.0 ±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 50 - 650 MHz 650 - 1200 MHz	dB dB dB	15 10 7	23 17 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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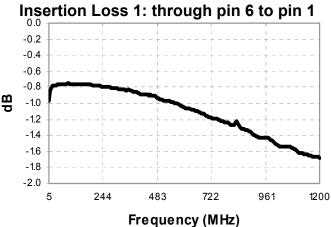
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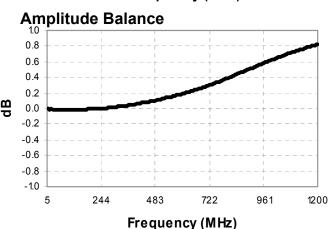
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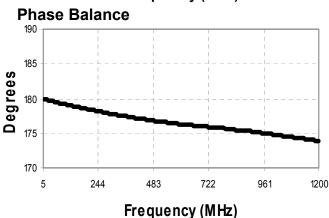
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Typical Performance Curves: $T_A = 25^{\circ}C$, $Z_0 = 50\Omega$

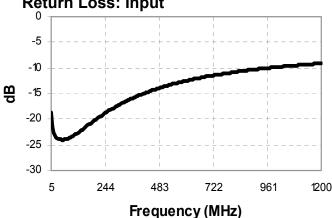












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