



MABA-008354-CF4A40

4:1 step down Flux Coupled Transformer 5-200MHz

Features

- Surface Mount
- 4:1 step-down Flux Coupled
- 260°C Reflow Compatible
- RoHS* Compliant
- All wires are welded to the PCB carrier
- Available on Tape and Reel. Reel quantity 2000

Description

M/A-COM's MABA-008354-CF4A40 is a 4:1 Flux Coupled step down transformer in a low cost, surface mount package. Ideally suited for high volume CATV/Broadband applications. Suitable for use in 50 Ohm and 75 Ohm systems



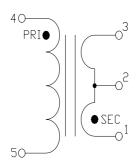
Pin Configuration

Pin No.	Function	
1	Secondary Dot (output 1)	
2	Centre Tap	
3	Secondary (output 2)	
4	Primary Dot (input)	
5	Primary (ground)	

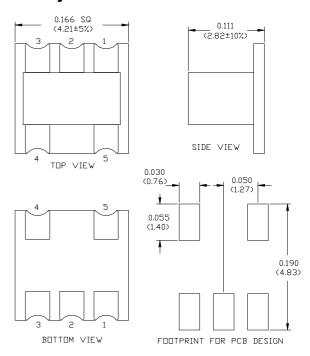
Ordering Information

Part Number	Package		
MABA-008354-CF4A40	2000		
MABA-008354-CF4ATB	Customer Test Board		

Schematic



Case Style: SM-164



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

Note: Reference Application Note M513 for reel size information.

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

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- 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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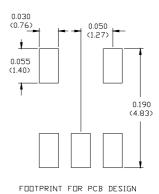
Electrical Specifications: $T_A = 25^{\circ}C$, $Z_0 = 75\Omega^{-1}$

Parameter	Frequency	Units	Min	Тур	Max
Insertion Loss	5 - 35 MHz	dB	-	0.8	1.1
	35 - 85 MHz	dB	-	1.1	1.6
	85-200 MHz	dB	-	2.2	3.6
Amplitude Balance	5 - 85 MHz	dB	-	± 0.01	± 0.4
	85 - 200 MHz	dB	-	± 0.09	± 0.8
Phase Balance	5 - 85 MHz	0	-	± 0.2	± 4
	85 - 200 MHz	0	-	± 0.4	± 5
Input Return Loss	5 - 35 MHz	dB	15	19	-
	35 - 85 MHz	dB	10	13	-
	85 - 200 MHz	dB	5	8	-

Absolute Maximum Ratings 1,2

Parameter	Absolute Maximum		
Max RF Power	1W		
Max DC current	250mA per arm		
Operating Temperature	-40°C to +60°C		
Storage Temperature	-40°C to +85°C		

Recommended PCB Configuration



1. Exceeding any one or combination of these limits may cause

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^{2.} M/A-COM does not recommend sustained operation near these survivability limits.

permanent damage to this device.

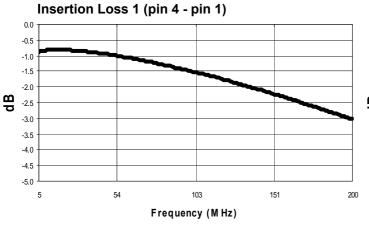


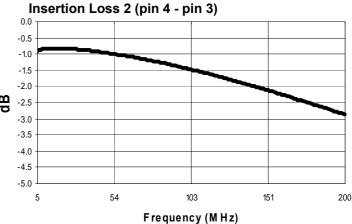


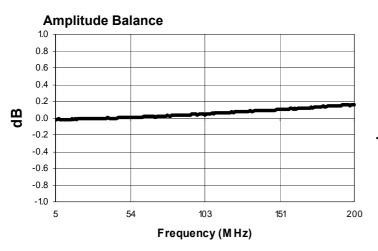
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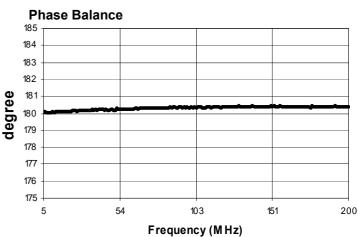
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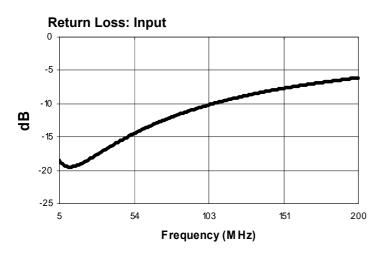
Typical Performance Curves: $T_A = 25^{\circ}C$, $Z_0 = 75\Omega^{-1}$











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