



4:1 flux Coupled Transformer 5-200MHz

MABA-008260-CF4A40

Features

- SMT unit.
- 4:1 Impedance
- 260°C Reflow Compatible
- RoHS* Compliant
- RoHS version of MABACT0045
- Available on Tape and Reel. Reel quantity 2000

Description

M/A-COM's MABA-008260-CF4A40 is a low cost surface mount 4:1 flux coupled transformer. Ideally suited for high volume CATV/Broadband applications. Suitable for use in 50 Ohm and 75 Ohm systems.



Pin Configuration

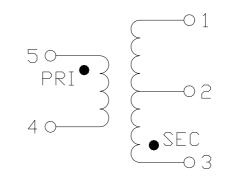
Pin No.	Function	
1	Secondary Output 2	
2	Centre Tap (ground)	
3	Secondary Dot Output 1	
4	Primary (ground)	
5	Primary Dot (input)	

Ordering Information

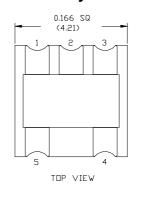
Part Number	Package		
MABA-008260-CF4A40	2000		
MABA-008260-CF4ATB	Customer Test Board		

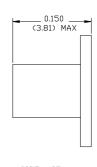
Note: Reference Application Note M513 for reel size information.

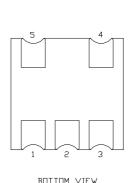
Schematic

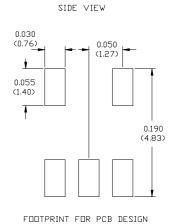


Case Style: SM-164









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

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PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in volume is not guaranteed.

- 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.

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





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

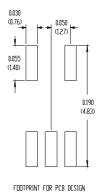
Parameter	Frequency	Units	Min	Тур	Max
Insertion Loss	5 - 65 MHz 65 - 200 MHz	dB dB	-	0.6 0.8	1.0 1.0
Amplitude Balance	5 - 200 MHz	dB	-	0.2	0.3
Phase Balance	5 - 65 MHz 65 - 200 MHz	dB dB		0.1 0.3	2.0 3.0
Input Return Loss	5 - 65 MHz 65 - 200 MHz	dB dB	15 12	25 17	

Absolute Maximum Ratings ^{1,2}

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

- 1. Exceeding any one or combination of these limits may cause permanent damage to this device.
- 2. M/A-COM does not recommend sustained operation near these survivability limits.

Recommended PCB Configuration



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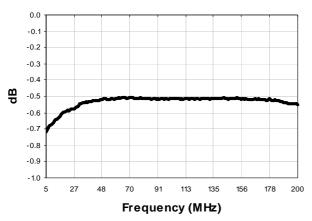


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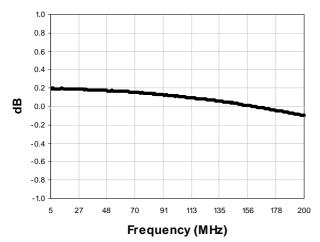
MABA-008260-CF4A40

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

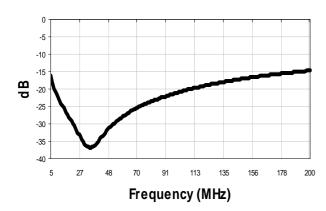
Insertion Loss 1: pin 5-3



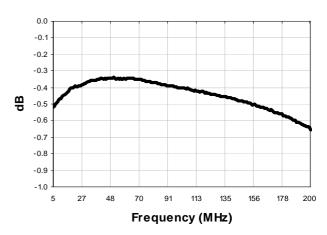
Amplitude Balance



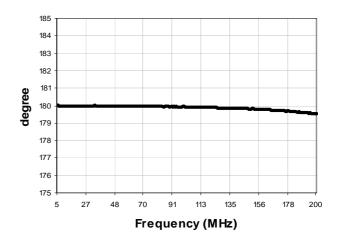
Return Loss: Input



Insertion Loss 2: pin 5-1



Phase Balance



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