MABA-009836-CF48A0



4:1 Flux Coupled Transformer

5 - 200 MHz

M/A-COM Products Rev. V1

Features

- Surface Mount
- 4:1 Impedance
- 260°C Reflow Compatible
- RoHS* Compliant, lead free
- · Available on Tape and Reel.

Description

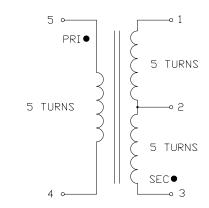
M/A-COM's MABA-009836-CF48A0 is a 4:1 RF flux coupled step up transformer in a low cost, surface mount package. Ideally suited for high volume CATV/Broadband applications.



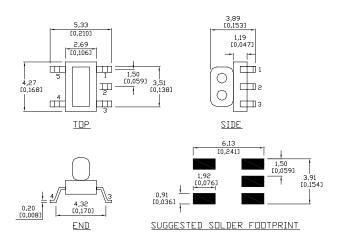
Pin Configuration

Pin No.	Function		
1	Secondary		
2	Secondary CT		
3	Secondary Dot		
4	Primary		
5	Primary Dot		

Schematic



Case Style SM-138



Dimensions are inches (millimeters) ±0.015 (0.38) unless otherwise specified

Ordering Information

Part Number	Package		
MABA-009836-CF48A0	2000 piece reel		
MABA-009836-CF48TB	Customer Test Board		

Note: Reference Application Note M513 for reel size information.

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

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measurements. Commitment to develop is not guaranteed. **PRELIMINARY:** Data Sheets contain information regarding a product M/A-COM 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 yolume is not quaranteed.

- 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.

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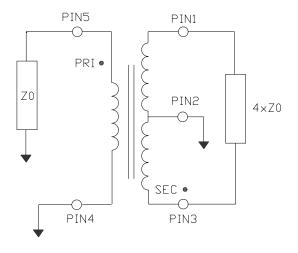
Electrical Specifications: $T_A = 25$ °C, 0dBm, $Z_0 = 50\Omega$

Parameter	Test Conditions	Units	Min	Тур	Max
Insertion Loss	5 - 65 MHz 65 - 200 MHz	dB dB	-	0.4 0.9	0.7 1.5
Amplitude Unbalance	5 - 65 MHz 65 - 200 MHz	dB dB	-	±0.02 ±0.2	±0.1 ±0.5
Phase Unbalance	5 - 65 MHz 65 - 200 MHz	0	-	±0.4 ±2.0	±2.0 ±8.0
Input Return Loss	5 - 65 MHz 65 - 200 MHz	dB dB	15 7	22 11	-

Recommended Maximum Ratings

Parameter	Value
RF Power	50mW
Peak IF Current	200mA
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C

Application Circuit



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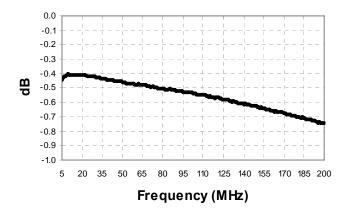
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5 - 200 MHz

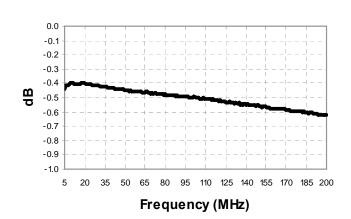
M/A-COM Products Rev. V1

Typical Performance Curves: $T_A = 25$ °C, 0dBm, $Z_0 = 50\Omega$

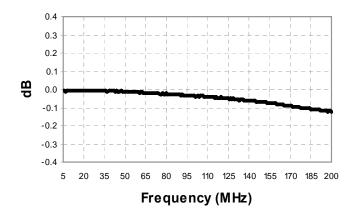
Insertion Loss1:



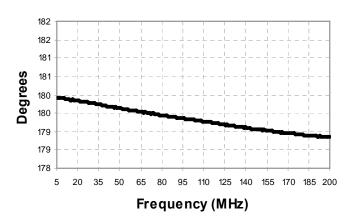
Insertion Loss 2:



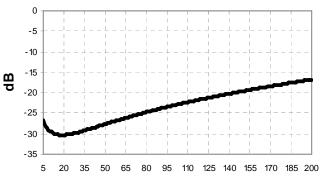
Amplitude Balance



Phase Balance



Return Loss: Input



Frequency (MHz)

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