MABA-009600-CF48A0



4:1 RF Flux Coupled Transformer 5-200MHz

M/A-COM Products Release - Rev. V2

Features

- Surface Mount
- 4:1 Impedance
- 260°C Reflow Compatible
- RoHS* Compliant, Pb Free SAC305
- · Recommended for Lead Free process only
- Available on Tape and Reel.

Description

M/A-COM's MABA-009600-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.



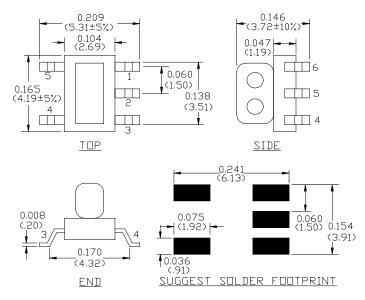
Pin Configuration

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

Note: Reference Application Note M513 for reel size information.

Schematic 5 TURNS PRI 5 TURNS 5 TURNS 5 TURNS 5 SEC 3

Case Style: SM-138



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

Ordering Information

Part Number	Package		
MABA-009600-CF48A0	2000 piece reel		
MABA-009600-CF48TB	Customer Test Board		

^{*} 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 volume is not guaranteed.

- 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	-

Absolute Maximum Ratings ^{1,2}

Parameter	Absolute Maximum
RF Power	50mW
Peak IF Current	200mA
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.

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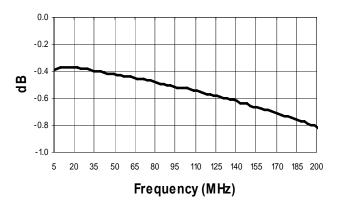


4:1 RF Flux Coupled Transformer 5-200MHz

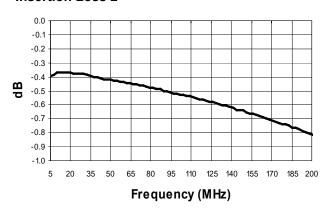
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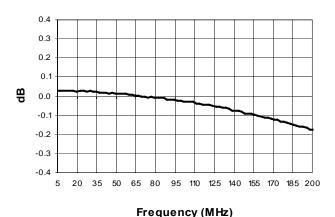
Insertion Loss 1



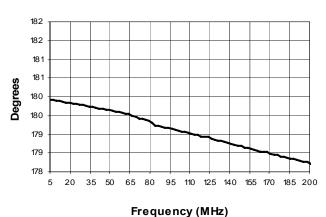
Insertion Loss 2



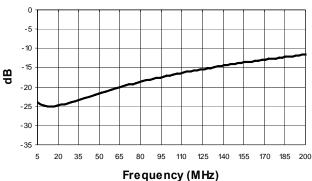
Amplitude Unbalance



Phase Balance



Input Return Loss



input Return 2055

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