# MABA-009600-CF48A0



# 4:1 RF Flux Coupled Transformer 5-200MHz

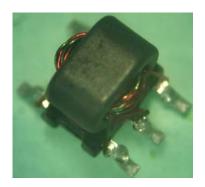
M/A-COM Products Release - Rev. V2

### **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.



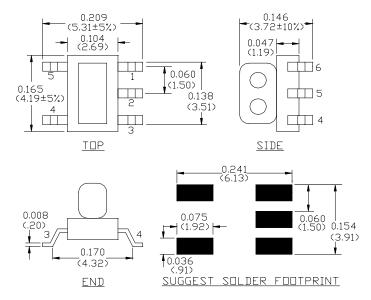
### **Pin Configuration**

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 TURNS 5 TURNS 5 TURNS

Case Style: SM-138



Dimensions in mm [inches] Tolerance: .xx  $\pm$  .02, .xxx  $\pm$  .010

## Ordering Information

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

<sup>\*</sup> Restrictions on Hazardous Substances, European Union Directive 2002/95/EC.

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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.

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- Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300
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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** <sup>1,2</sup>

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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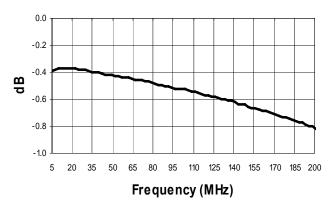


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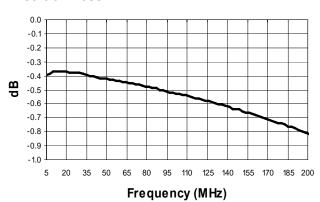
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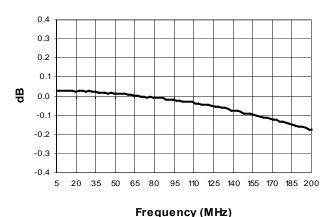
### **Insertion Loss 1**



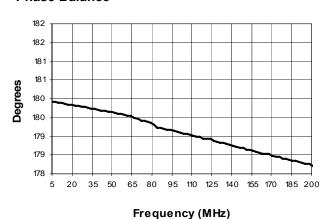
### **Insertion Loss 2**



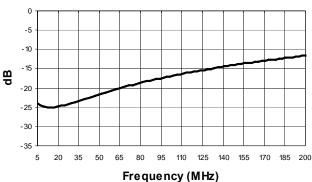
### **Amplitude Unbalance**



**Phase Balance** 



### **Input Return Loss**



### input Return 2009

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