

4:1 Flux Coupled Transformer  
5 - 200 MHz

M/A-COM Products  
Rev. V1

## Features

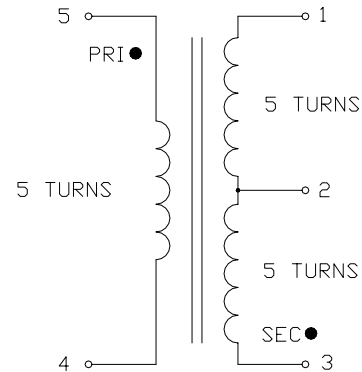
- Surface Mount
- 4:1 Impedance
- 260°C Reflow Compatible
- RoHS\* Compliant, lead free
- Available on Tape and Reel.

## Description

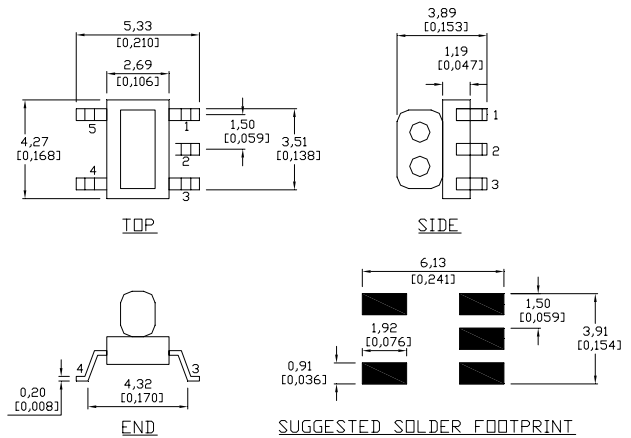
M/A-COM's MABA-009836-CF48A0 is a 4:1 RF flux coupled step up transformer in a low cost, surface mount package. Ideally suited for high volume CATV/Broadband applications.



## Schematic



## Case Style SM-138



## Pin Configuration

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

Dimensions are inches (millimeters)  $\pm 0.015$  (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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**Electrical Specifications:  $T_A = 25^\circ\text{C}$ , 0dBm,  $Z_0 = 50\Omega$**

Parameter	Test Conditions	Units	Min	Typ	Max
Insertion Loss	5 - 65 MHz	dB	-	0.4	0.7
	65 - 200 MHz	dB	-	0.9	1.5
Amplitude Unbalance	5 - 65 MHz	dB	-	$\pm 0.02$	$\pm 0.1$
	65 - 200 MHz	dB	-	$\pm 0.2$	$\pm 0.5$
Phase Unbalance	5 - 65 MHz	$^\circ$	-	$\pm 0.4$	$\pm 2.0$
	65 - 200 MHz	$^\circ$	-	$\pm 2.0$	$\pm 8.0$
Input Return Loss	5 - 65 MHz	dB	15	22	-
	65 - 200 MHz	dB	7	11	-

**Recommended Maximum Ratings**

Parameter	Value
RF Power	50mW
Peak IF Current	200mA
Operating Temperature	$-40^\circ\text{C}$ to $+85^\circ\text{C}$
Storage Temperature	$-40^\circ\text{C}$ to $+85^\circ\text{C}$

**Application Circuit**

