MABA-009109-CF1A40



1:1 Flux Coupled Balun Transformer

5 - 120 MHz

M/A-COM Products

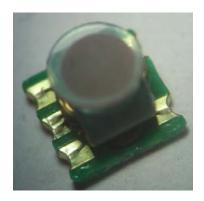
Part Status: Released Rev V2

Features

- **Surface Mount**
- 1:1 Impedance
- 75 Ohm
- **RoHS Compliant**

Description

M/A-COM's MABA-009109-CF1A40 is a 1:1 RF flux coupled Transformer in a low cost surface mount package. Ideally suited for high volume CATV application.



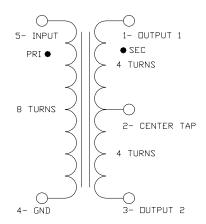
Pin Configuration

Function	Pin Number			
Secondary Dot (Output 1)	1			
Secondary Centre Tap	2			
Secondary (Output 2)	3			
Primary (Ground)	4			
Primary Dot (Input)	5			

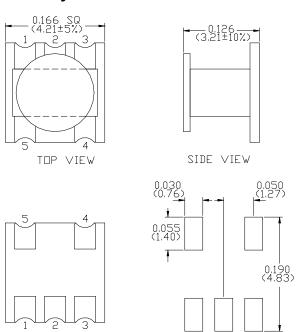
Ordering Information

Part Number	Package		
MABA-009109-CF1A40	2000 pieces per reel		
MABA-009109-CF1ATB	Customer test board		

Schematic



Case Style SM-164A



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

- 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.

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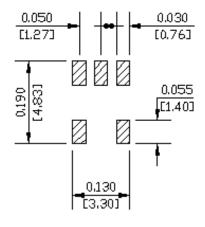
Electrical Specifications: $T_A = 25$ °C, 0dBm, $Z_0 = 75\Omega$

Parameter	Test Conditions	Units	Min.	Тур.	Max.
Frequency Range	5 – 120 MHz				
Insertion Loss 1 (Pin 5 to Pin 1)	5 – 75 MHz 75 – 120 MHz	dB dB		0.1 0.3	0.4 0.6
Insertion Loss 2 (Pin 5 to Pin 3)	5 – 75 MHz 75 – 120 MHz	dB dB	_ _	0.2 0.4	0.4 0.5
Amplitude Un-Balance	5 – 75 MHz 75 – 120 MHz	dB dB		±0.03 ±0.12	±0.17 ±0.38
Phase Un-Balance	5 – 75 MHz 75 – 120 MHz	0		±0.05 ±0.10	±2.0 ±3.0
Input Return Loss (Pin 5)	5 – 75 MHz 75 – 120 MHz	dB dB	20 15	28 19	

Absolute Maximum Ratings

Parameter	Absolute Maximum		
RF Power	250mW		
DC Current	30mA		
Operating Temperature	-40°C to +100°C		
Storage Temperature	-40°C to +100°C		

Recommended PCB Configuration



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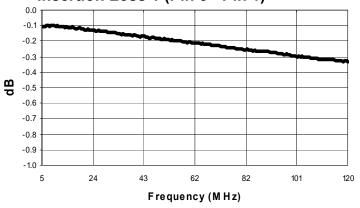


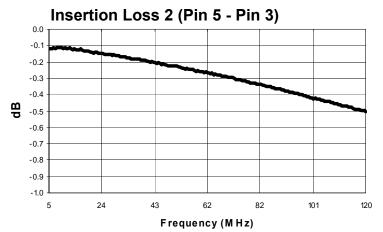
1:1 Flux Coupled Balun Transformer

M/A-COM Products 5 - 120 MHz Part Status: Released Rev V2

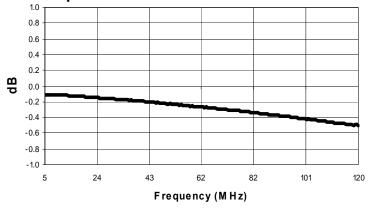
Typical Performance: $T_A = 25^{\circ}C$, 0dBm, $Z_0 = 75\Omega$

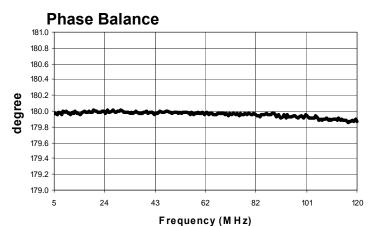
Insertion Loss 1 (Pin 5 - Pin 1)



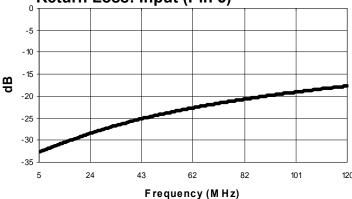


Amplitude Balance





Return Loss: Input (Pin 5)



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