MABA-009005-CF1A40



1:1 Flux Coupled Balun Transformer

5 - 120 MHz

M/A-COM Products

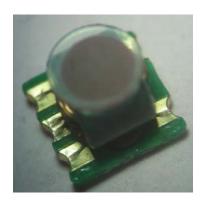
Part Status: Released Rev V1

Features

- **Surface Mount**
- 1:1 Impedance
- 75 Ohm
- RoHS Compliant and lead free

Description

M/A-COM's MABA-009005-CF1A40 is a 1:1 RF flux coupled Transformer in a low cost surface mount package. Ideally suited for high volume CATV application.



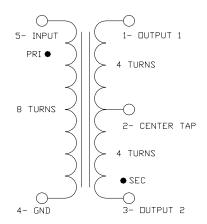
Pin Configuration

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

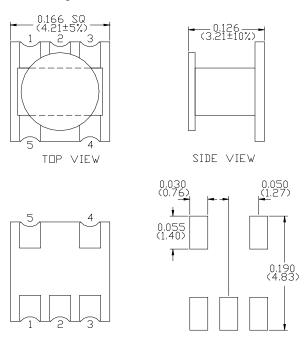
Ordering Information

Part Number	Package			
MABA-009005-CF1A40	2000 pieces per reel			
MABA-009005-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 Visit www.macomtech.com for additional data sheets and product information.
- China Tel: +86.21.2407.1588

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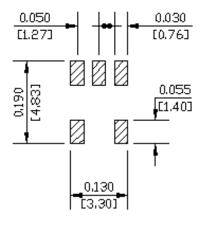
Electrical Specifications: $T_A = 25$ °C, 0dBm, $Z_0 = 75\Omega$

Parameter	Test Conditions	Units	Min.	Тур.	Max.
Frequency Range	5 – 120 MHz				
Insertion Loss 1 (Pin 5 to Pin 1)	5 – 80 MHz 80 – 120 MHz	dB dB	- -	0.1 0.3	0.4 0.5
Insertion Loss 2 (Pin 5 to Pin 3)	5 – 80 MHz 80 – 120 MHz	dB dB		0.2 0.4	0.4 0.6
Amplitude Un-Balance	5 – 80 MHz 80 – 120 MHz	dB dB		±0.06 ±0.18	±0.2 ±0.3
Phase Un-Balance	5 – 65 MHz 65 – 120 MHz	0		±0.05 ±0.10	±1.5 ±3.0
Input Return Loss (Pin 5)	5 – 70 MHz 70 – 120 MHz	dB dB	19 14	25 19	_ _

Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Power	250mW
DC Current	30mA
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C

Recommended PCB Configuration



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M/A-COM Products 5 - 120 MHz Part Status: Released Rev V1

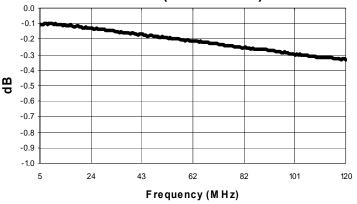
5

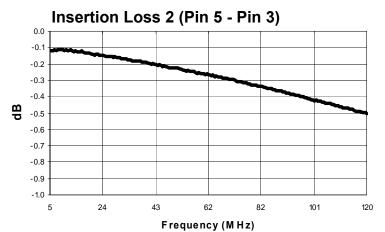
24

43

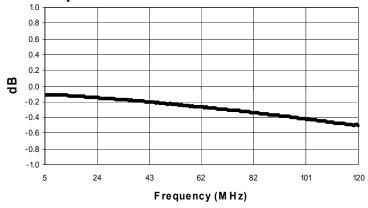
Typical Performance: $T_A = 25^{\circ}C$, 0dBm, $Z_0 = 75\Omega$

Insertion Loss 1 (Pin 5 - Pin 1)





Amplitude Balance





62

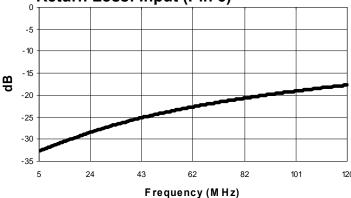
Frequency (MHz)

82

101

120

Return Loss: Input (Pin 5)



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