MABA-008965-CF1160



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-008965-CF1160 is a 1:1 RF flux coupled Transformer in a low cost surface mount package. Ideally suited for high volume CATV application.



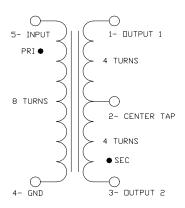
Pin Configuration

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

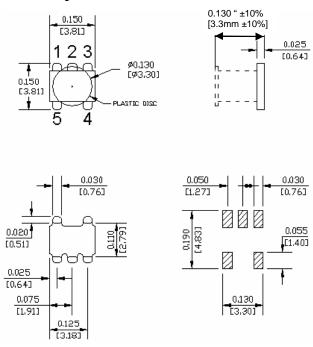
Ordering Information

Parameter	Absolute Maximum		
MABA-008965-CF1160	2000		
MABA-008965-CF11TB	Costumer Test Board		

Schematic



Case Style SM-22A



Dimensions are inches [millimeters] ±0.015 [0.38] unless otherwise specified.

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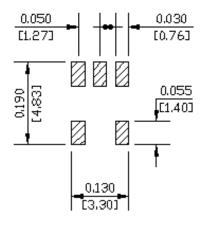
Electrical Specifications: $T_A = 25$ °C, 0dBm, $Z_0 = 75\Omega$

Parameter	Test Conditions	Units	Min.	Тур.	Max.
Frequency Range	5 – 120 MHz				
Insertion Loss 1 (Pin 5 to Pin 1)	5 – 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 – 80 MHz 80 – 120 MHz	0		±0.05 ±0.10	±1.5 ±2.0
Input Return Loss (Pin 5)	5 – 80 MHz 80 – 120 MHz	dB dB	19 15	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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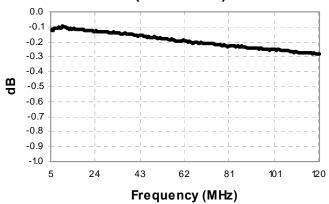
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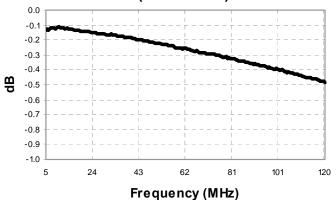
M/A-COM Products
Part Status: Released Rev. V2

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

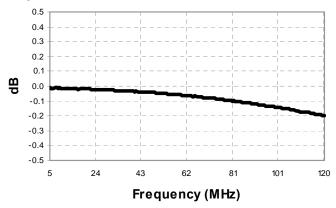
Insertion Loss 1 (Pin5 - Pin1)



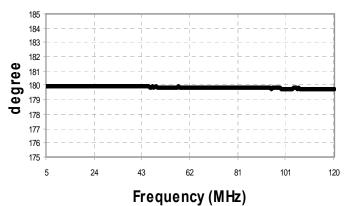
Insertion Loss 2 (Pin5 - Pin3)



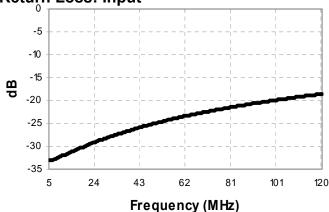
Amplitude Balance



Phase Balance



Return Loss: Input



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