MABA-008965-CF1160



1:1 Flux Coupled Balun Transformer

5 - 120 MHz

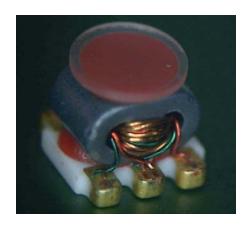
M/A-COM Products
Part Status: Released Rev. V2

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.



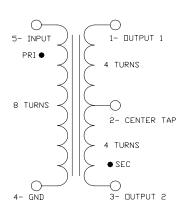
Pin Configuration

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

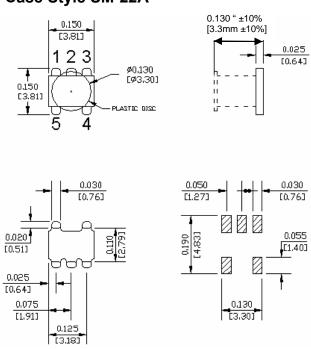
Ordering Information

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.

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measurements. Commitment to develop is not guaranteed.

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.

- North America Tel: 800.366.2266 / Fax: 978.366.2266
- Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300
- Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298
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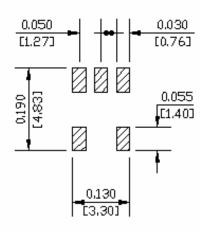
Electrical Specifications: $T_A = 25$ °C, 0dBm, $Z_0 = 75\Omega$

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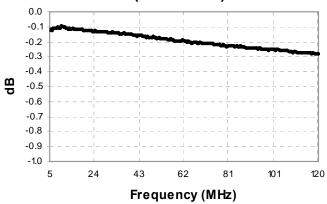
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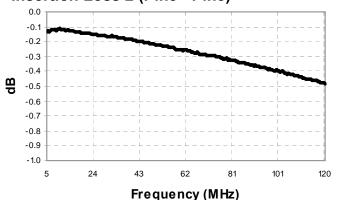
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Typical Performance: $T_A = 25^{\circ}C$, 0dBm, $Z_0 = 75\Omega$

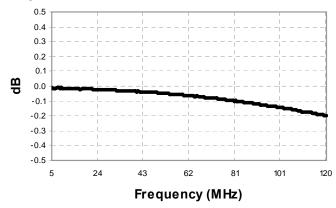
Insertion Loss 1 (Pin5 - Pin1)



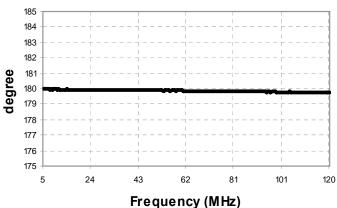
Insertion Loss 2 (Pin5 - Pin3)



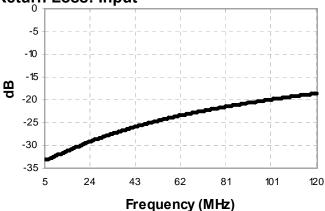
Amplitude Balance



Phase Balance



Return Loss: Input



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