

MABA-008124-CF1FA0



1:1 Flux Coupled Transformer
5 - 100 MHz

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

Features

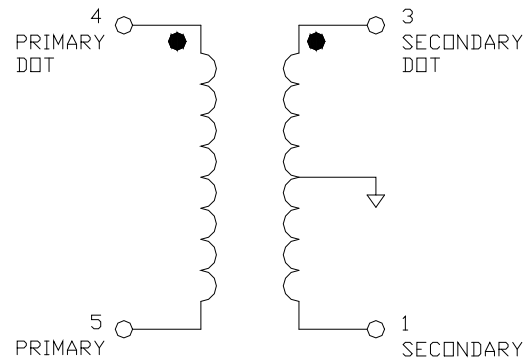
- Surface Mount
- 1:1 Impedance
- CT on Secondary
- 75 Ohm
- RoHS Compliant

Description

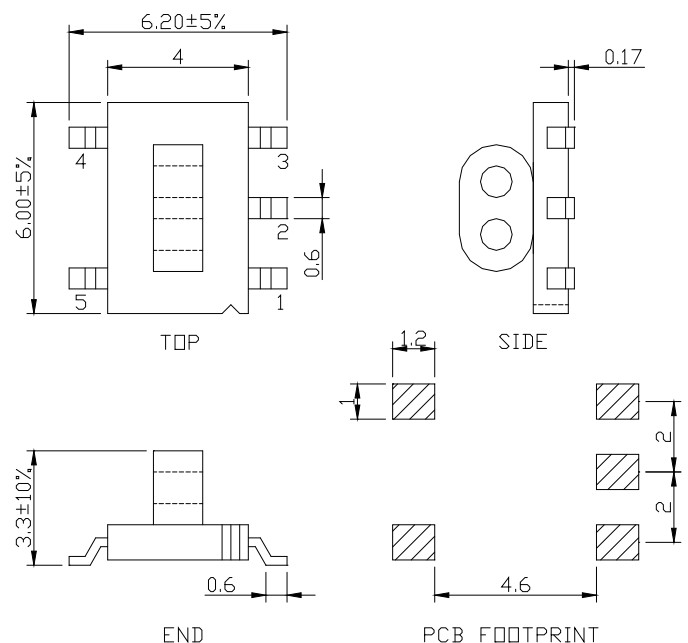
M/A-COM's MABA-008124-CF1FA0 is a 1:1 RF flux coupled Transformer in a low cost surface mount package. Ideally suited for high volume CATV application.



Schematic



Case Style SM-250-5



Pin Configuration

Function	Pin Number
Secondary	1
Secondary CT	2
Secondary Dot	3
Primary Dot	4
Primary	5

Ordering Information

Part Number	Package
MABA-008124-CF1FA0	900 pieces per reel
MABA-008124-CF1FTB	Customer test board

Dimensions in inches [mm] Tolerance: .xx ± .02, .xxx ± .010, Except where otherwise stated.

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Electrical Specifications: $T_A = 25^\circ\text{C}$, $Z_0 = 75\Omega$

Parameter	Test Conditions	Units	Min.	Typ.	Max.
Frequency Range	5 – 100 MHz				
Insertion Loss	5 – 100 MHz	dB	–	0.7	1.0
Amplitude Balance	5 – 100 MHz	dB	–	± 0.0	± 0.25
Phase Balance (ref value 180°)	5 – 100 MHz	$^\circ$	–	± 0.3	± 4.0
Input Return Loss	5 – 75 MHz	dB	17	25	–
	75 – 100 MHz	dB	15	21	–

Absolute Maximum Ratings

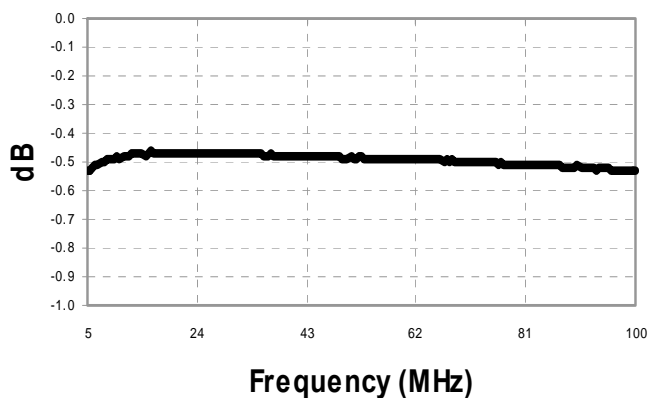
Parameter	Absolute Maximum
RF Power	250mW
DC Current	30mA
Operating Temperature	-40°C to $+75^\circ\text{C}$
Storage Temperature	-40°C to $+85^\circ\text{C}$

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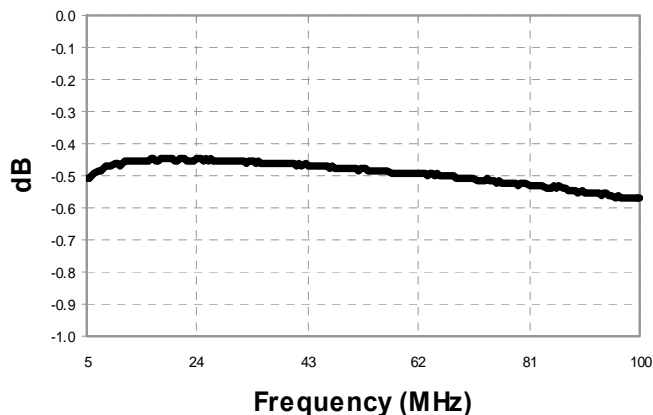
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Typical Performance: $T_A = 25^\circ\text{C}$, $Z_0 = 75\Omega$

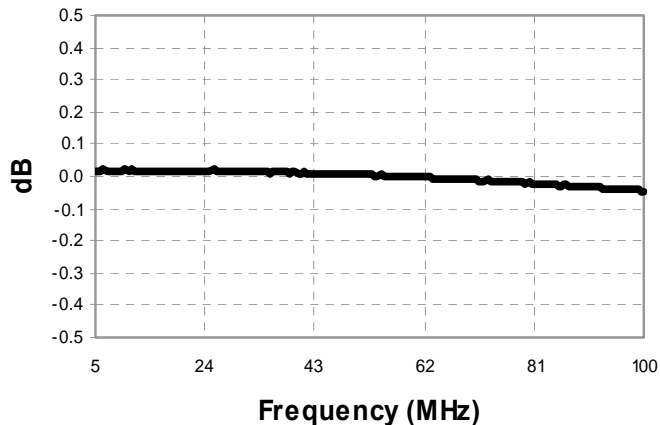
Insertion Loss 1



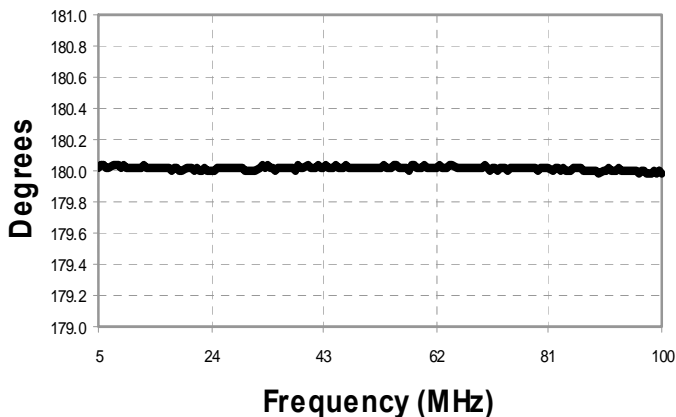
Insertion Loss 2



Amplitude Balance



Phase Balance



Return Loss: Input

