

MABA-010061-CF4FA0



Transformer, 1:4 Flux Coupled Transformer
5 to 100 MHz

M/A-COM Products
Rev. V1

Features

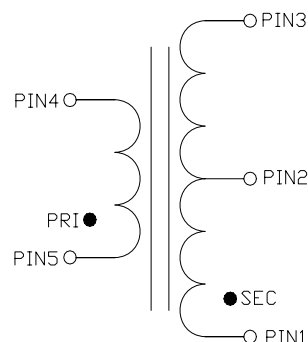
- Surface mount
- 1:4 Impedance ratio
- Centre tap on Secondary
- 260°C reflow compatible
- RoHS* compliant and lead free
- Available on tape and reel

Description

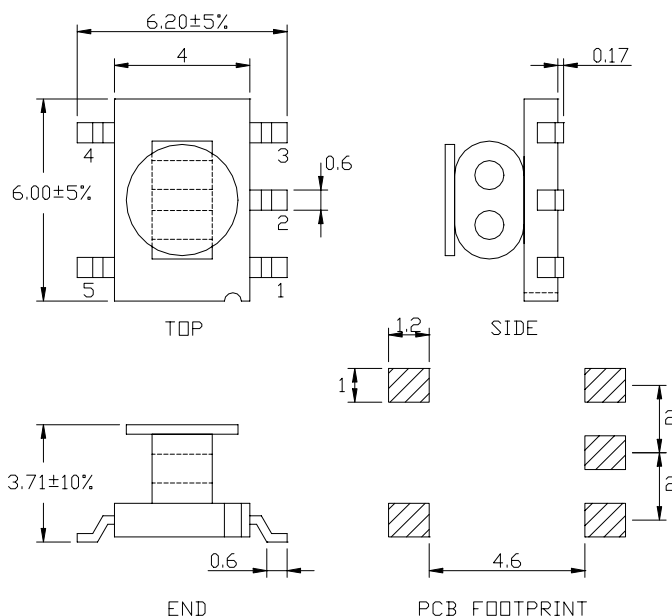
M/A Com's MABA-010061-CF4FA0 is a 1:4 RF Flux coupled transformer in a low cost, surface mount package. Ideally suited for broadband CATV applications.



Schematic



Case style



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

Pin Configuration

Pin no.	Function
1	Secondary dot
2	Secondary Centre Tap
3	Secondary
4	Primary
5	Primary Dot

* Restrictions on Hazardous Substances, European Union Directive 2002/95/EC.

ADVANCED: Data Sheets contain information regarding a product MA-COM Technical Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed.

PRELIMINARY: Data Sheets contain information regarding a product MA-COM Technical Solutions 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.

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Visit www.macomtech.com for additional data sheets and product information.

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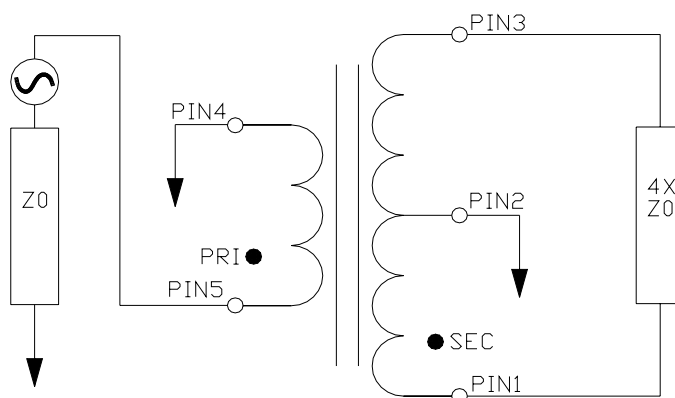
Electrical Specifications: $T_A = 25^\circ\text{C}$, 0dBm, $Z_0 = 75\Omega$, $P_{in} = 0\text{dBm}$

Parameter	Frequency	Units	Min	Typ	Max
Insertion Loss	5 - 100 MHz	dB	-	1.22	1.5
Amplitude Unbalance (Nominal 0dB)	5 - 100 MHz	dB	-	0.01	± 0.1
Phase Unbalance (Nominal 180°)	5 - 100 MHz	°	-	0.05	± 1.0
Input Return Loss	5 - 65 MHz	dB	15	19	-
	65 - 200 MHz	dB	16	18	-

Recommended Maximum Ratings

Parameter	Value
Input power	At least +28dBm (631mW)
DC current (tested at 5V)	At least 600mA
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +100°C

Application Circuit

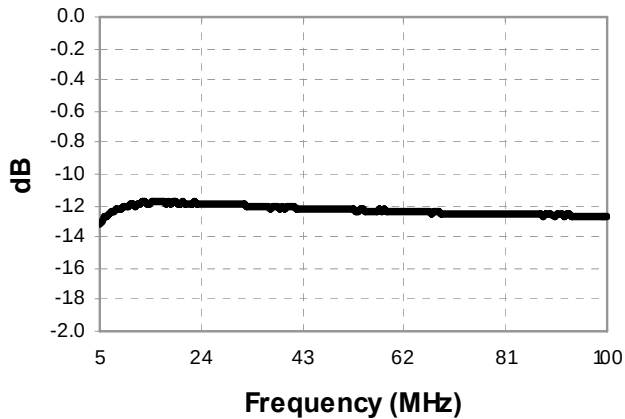


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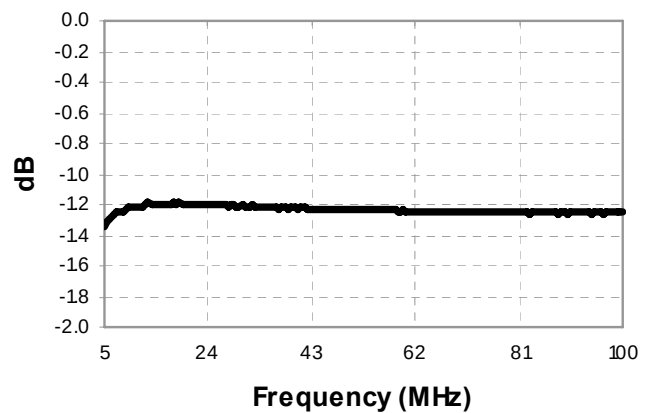
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Typical Performance Curves: $T_A = 25^\circ\text{C}$, 0dBm , $Z_0 = 75\Omega$, $P_{in} = 0\text{dBm}$

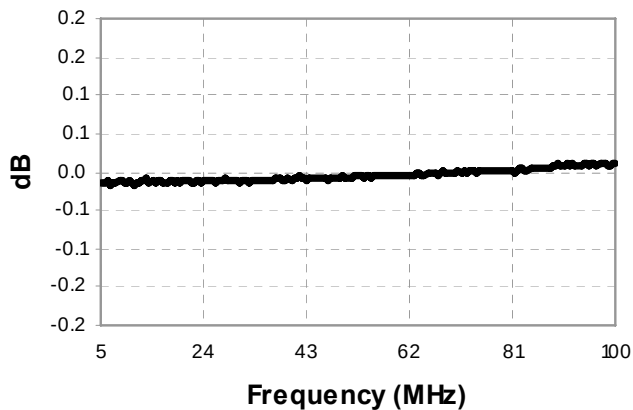
Insertion Loss 1: (Pin 5 to 1)



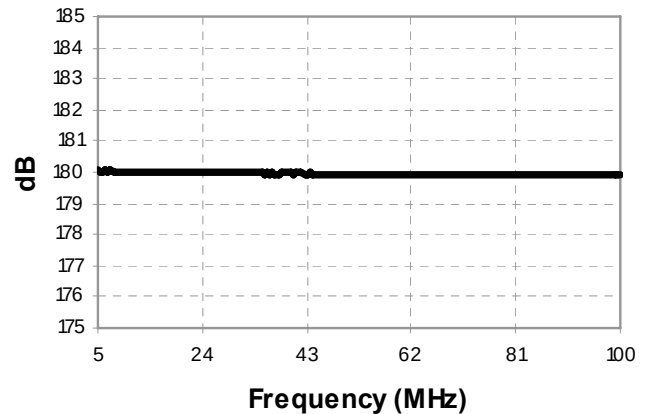
Insertion Loss 2: (Pin 5 to 3)



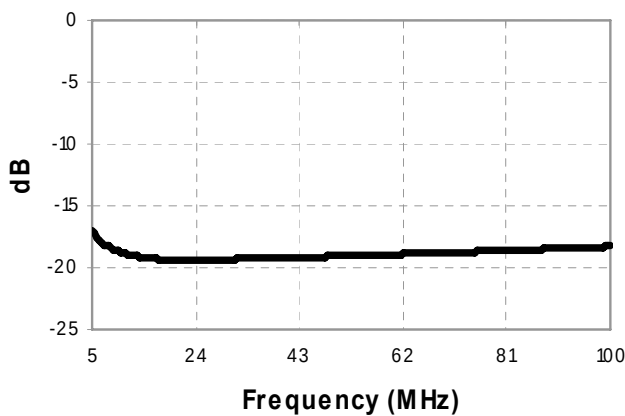
Amplitude Balance



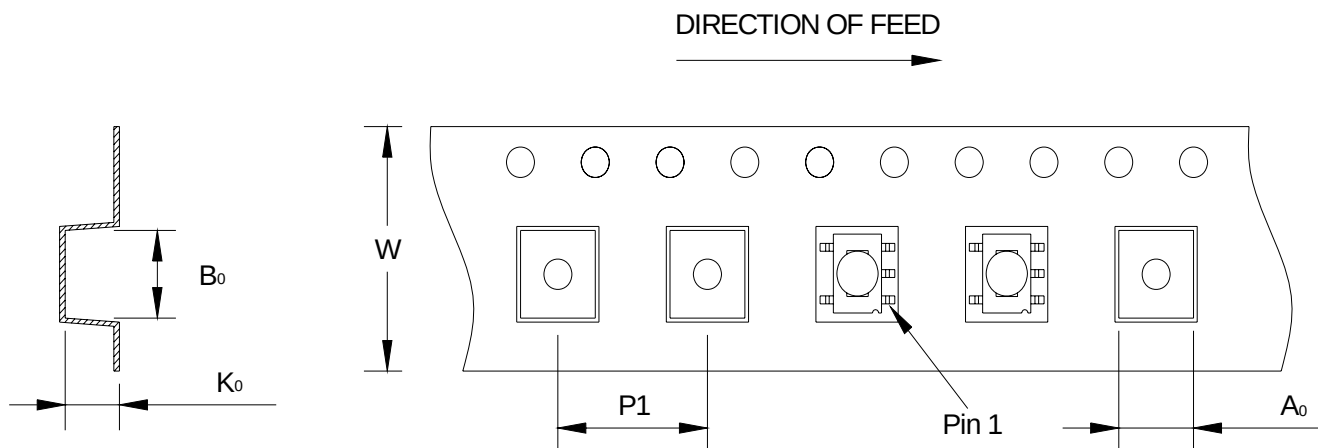
Phase Balance



Return Loss: Input (Pin 5)



Tape & Reel Information



Item	Dimension
A0	6.6mm +/- 0.1mm
B0	6.2mm +/- 0.1mm
K0	4.2mm +/- 0.1mm
W	16.0mm +/- 0.3mm
P1	8.00mm +/- 0.1mm

Ordering Information

Part number	Description
MABA-010061-CF4FA0	900 piece reel
MABA-010061-CF4FTB	Customer Test Board

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

MACOM:

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