

1:1 Transmission line Transformer

Rev B

4.5 - 3000 MHz

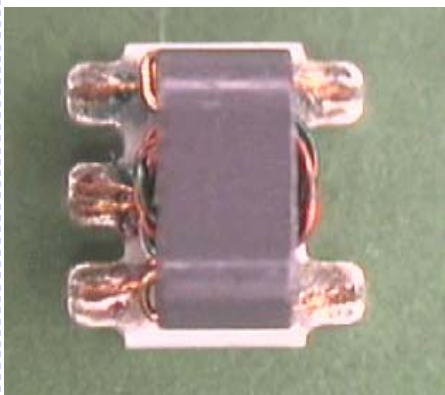
MABACT0010

Features:

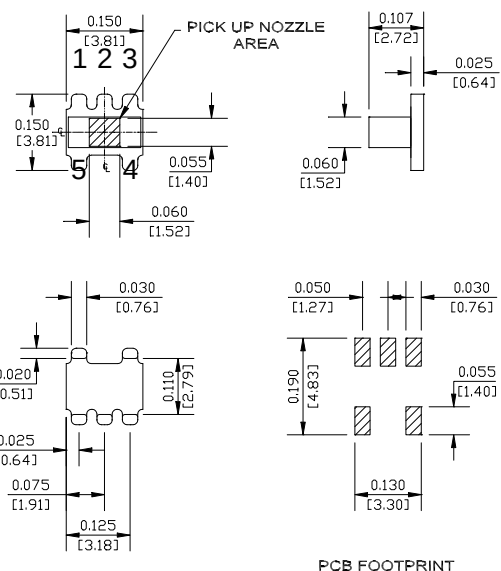
- Surface Mount
- 1:1 Impedance
- Available on tape & reel

Description

M/A Com's MABACT0010 is a 1:1 RF Transmission Line transformer in a low cost surface mount package. It is ideally suited for high volume CATV/ Broadband applications.



SM-22B



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

Ordering Information

Part Number	Package
MABACT0010	Tape & Reel

Electrical Specifications: 25°C, Impedance = 75 Ohms

Parameter	Frequency (MHz)	Units	Minimum	Typical	Maximum
Frequency Range	4.5 - 3000				
Insertion Loss	4.5-1000	dB	-	0.8	1.0
Insertion Loss	1000-2000	dB	-	1.6	2.0
Insertion Loss	2000-3000	dB	-	2.5	3.5
Amplitude Unbalance	4.5-1000	dB	-	0.5	1.0
Phase Unbalance	4.5-1000	°	-	10	20

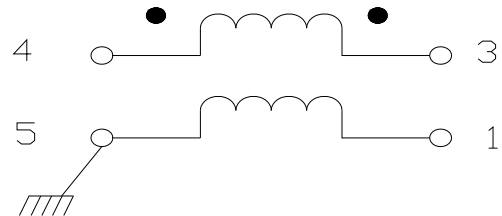
Absolute Maximum Ratings

Parameter	Maximum
RF input power	250mW
DC current	30mA
Operating temperature	-40°C - +85°C
Storage temperature	-40°C - +85°C

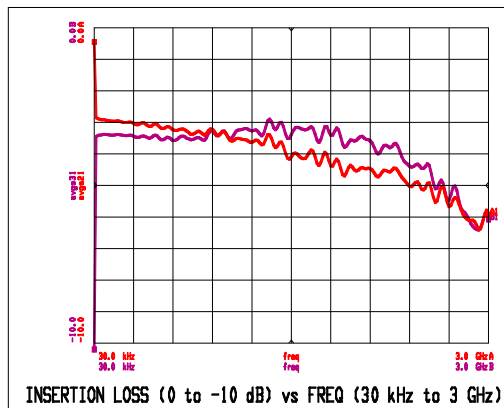
Pin Configuration

Function	Pin #
Secondary	1
Not Connected	2
Secondary Dot	3
Primary Dot	4
Primary	5

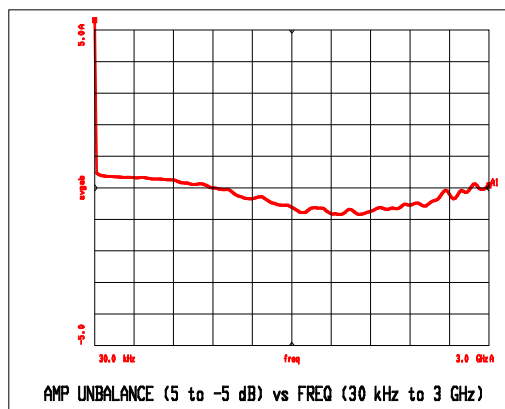
Schematic



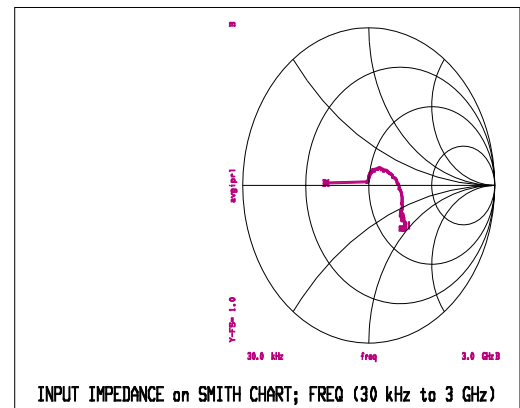
Insertion Loss Port



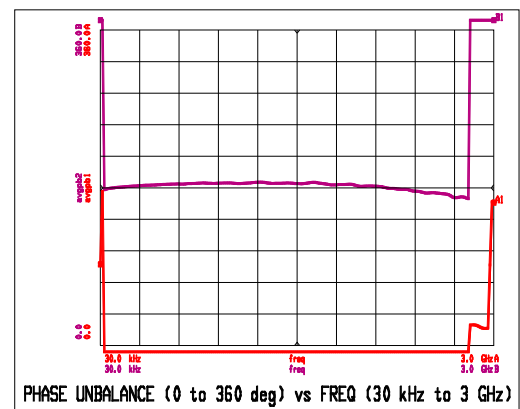
Amplitude Unbalance



Input Impedance



Phase Unbalance



ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology 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 M/A-COM Technology 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.

• **North America** Tel: 800.366.2266 • **Europe** Tel: +353.21.244.6400
 • **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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