

MABACT0010

# 1:1 Transmission line

# Transformer

Rev B

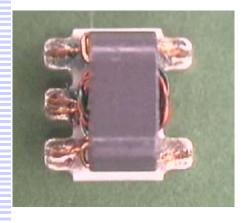
# 4.5 - 3000 MHz

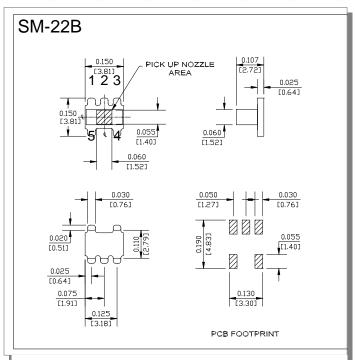
#### Features:

- Surface Mount
- 1:1 Impedence
- 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.





Dimensions in inches [mm]

Tolerance:  $.xx \pm .02$ ,  $.xxx \pm .010$ 

### **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	0	-	10	20

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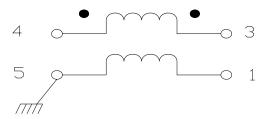
## **Absolute Maximum Ratings**

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

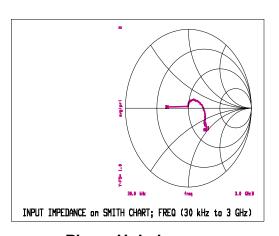
#### **Schematic**



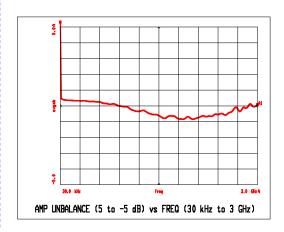
#### **Insertion Loss Port**



#### Input Impedence



# **Amplitude Unbalance**



#### **Phase Unbalance**



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- North America Tel: 800.366.2266 Europe Tel: +353.21.244.6400