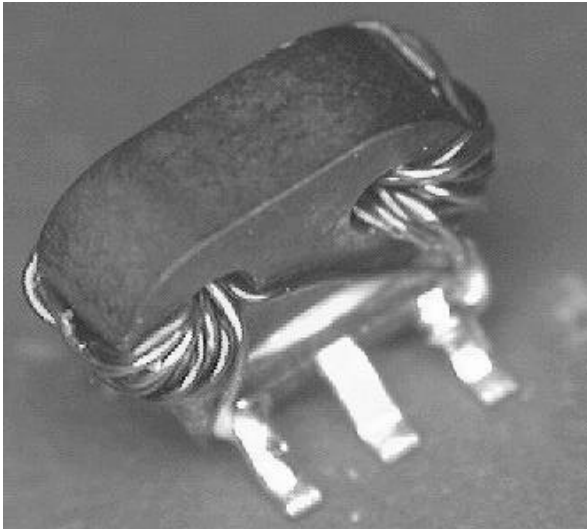


# M/A-COM E-Series RF 1:1 Transformer with tap

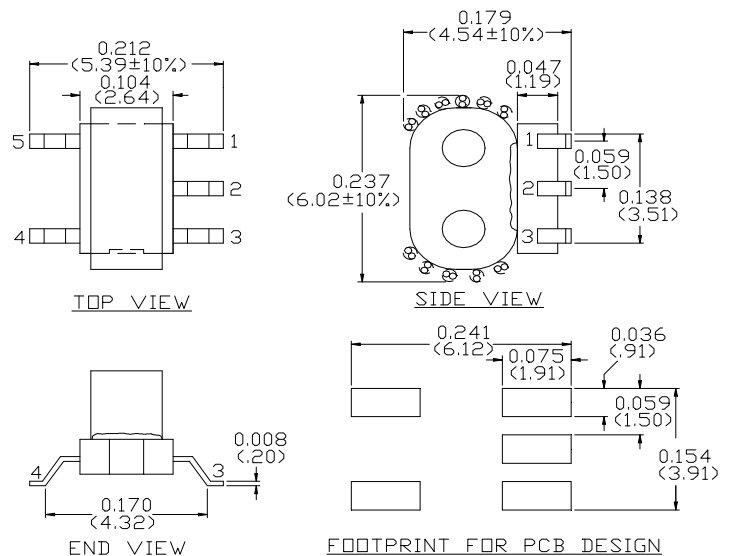
## 50 - 1200 MHz

### Features

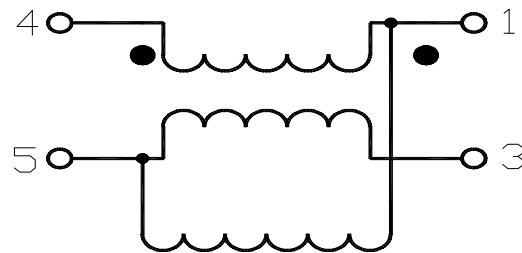
- Surface Mount
- 1:1 Impedance Ratio
- Available on Tape & Reel



### SM-158 Package



### Schematic



### Description

M/A-COM's MABAES0029 is a 1:1 RF transmission line transformer with tap in a low cost, surface mount package. Ideally suited for high volume CATV applications.

### Electrical Specifications @25°C @ 0dBm, 75 Ohms

Parameter		Units	Typical	Maximum	Minimum
Frequency Range	50 - 1200 MHz	MHz	—	—	
Insertion Loss Pin 4-3 (Coupled)	50 - 600 MHz	dB	0.5	1.0	—
	600 - 1000 MHz	dB	1.2	1.5	—
	1000 - 1200 MHz	dB	1.5	2.0	—
Insertion Loss Pin 4-1 (Thru)	50 - 600 MHz	dB	0.5	1.0	—
	600 - 1200 MHz	dB	0.8	1.5	—
Amplitude Imbalance	50 - 600 MHz	dB	0.1	0.3	—
	600 - 1200 MHz	dB	0.	1.0	—
Phase Imbalance	50 - 600 MHz	Degrees	1.0°	3.0°	—
	600 - 1000 MHz	Degrees	4.0°	10.0°	—
	1000 - 1200 MHz	Degrees	11°	13.0°	—

Specifications subject to change without notice.

Revision V4

- North America: Tel. (800) 366-2266, Fax (800) 618-8883
- Asia/Pacific: Tel.+81-44-844-8296, Fax +81-44-844-8298
- Europe: Tel. +44 (1908) 574 200, Fax+44 (1908) 574 300

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Visit [www.macom.com](http://www.macom.com) for additional data sheets and product information.

**Absolute Maximum Ratings**

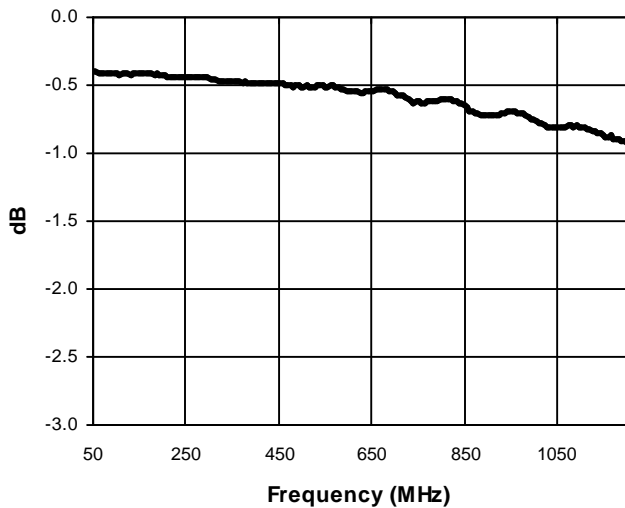
Parameter	Absolute Maximum
RF Power	250mW
Operating/Storage Temperature	-40°C to +85°C
Current DC	50 mA
Current RMS	10 mA
Current P-P for 1hr	80 mA

**Functional Configuration**

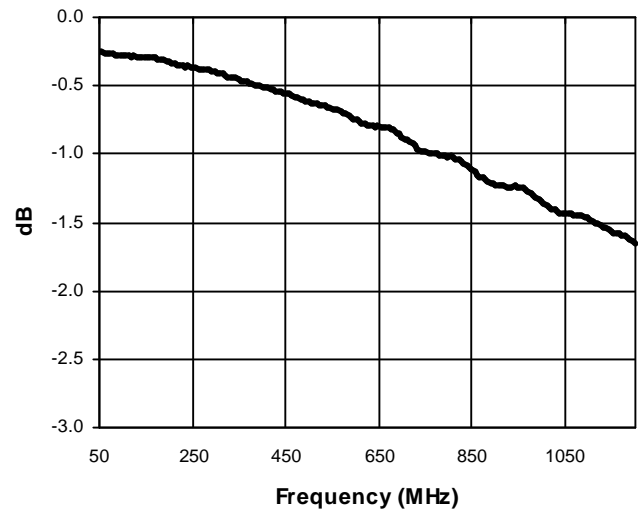
Function	Pin No.
Input	4
Ground	5
Output Coupled Leg	3
Output Thru Leg	1
Not connected	2

**Typical Performance @ +25°C, 75 Ohms**

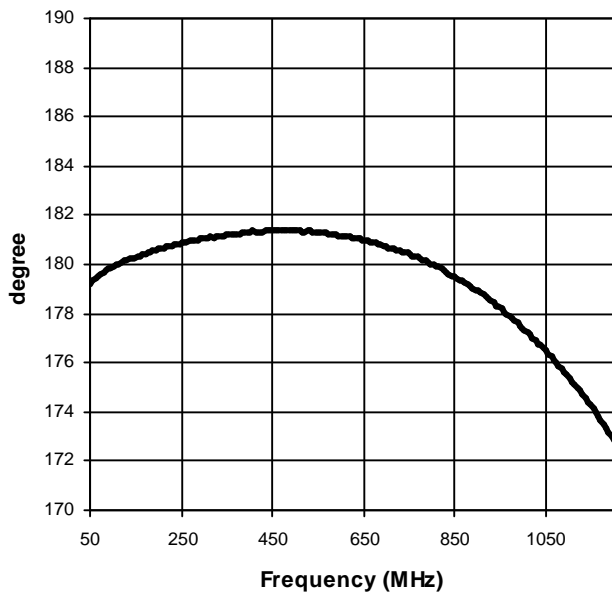
**Insertion Loss Pin 4-1**



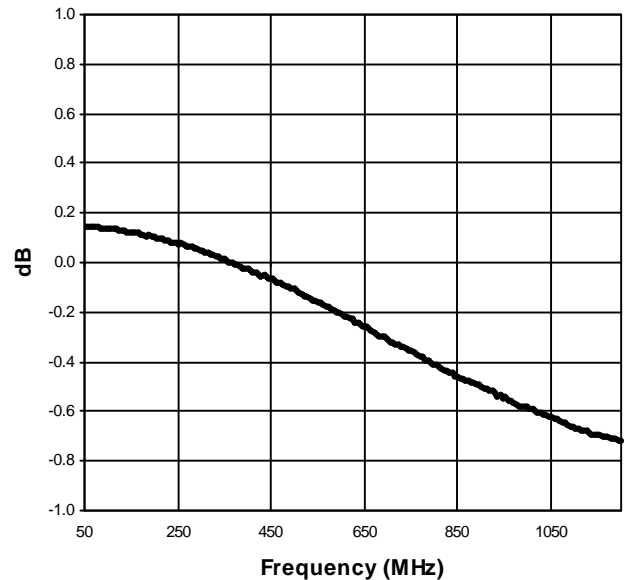
**Insertion Loss Pin 4-3**



**Phase Imbalance**



**Amplitude Imbalance**



Specifications subject to change without notice.

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