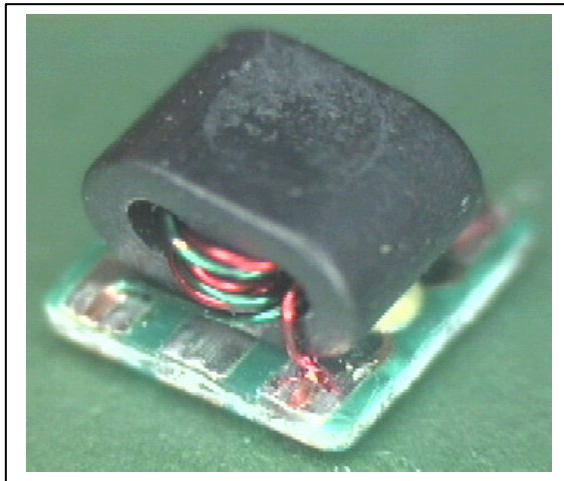


1:1 Flux Coupled Transformer

0.3 – 200 MHz



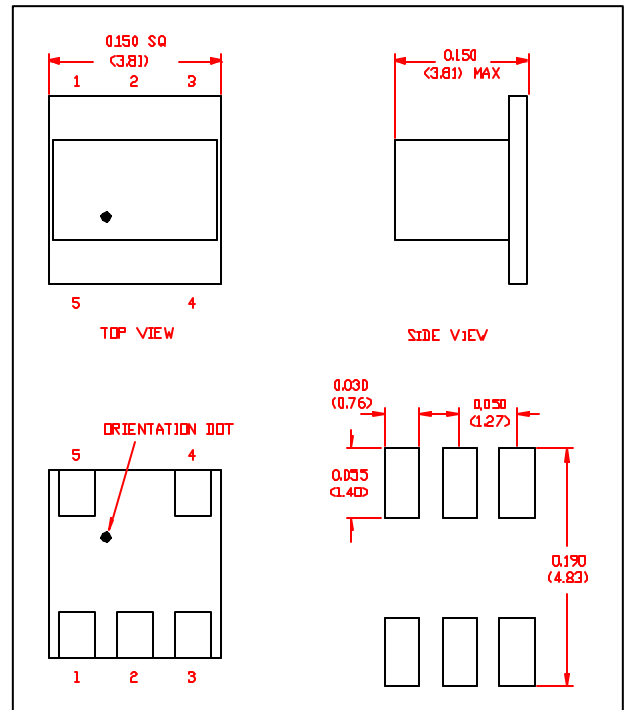
Features

- Surface Mount
- 1:1 Impedance
- CT on Secondary
- 75 Ω
- Available on tape & reel

Description

M/ACom's MABACT0036 is a 1:1 RF flux coupled step up transformer in a low cost, surface mount package. Ideally suited for high volume CATV/Broadband applications.

SM-155 Package



Dimensions in inches [mm] Tolerance: .xx $\pm$.02, .xxx $\pm$.010

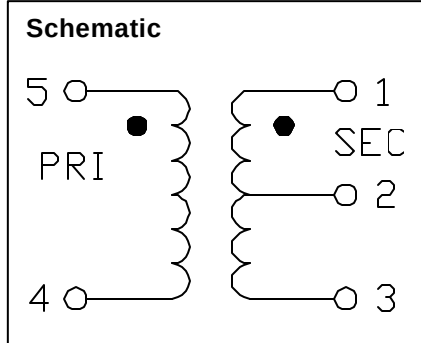
Electrical Specifications @ 25°C, $Z_0 = 75 \Omega$

Frequency Range .3 - 200 MHz	Test Conditions	Nominal	Units	Min.	Typ.	Max.
Insertion Loss (Pin 1 – 5)	0.3 - 5 MHz	—	dB	—	1.0	2.6
	5 - 200 MHz	—	dB	—	0.5	0.9
Insertion Loss (Pin 3 – 5)	0.3 – 10 MHz	—	dB	—	1.0	2.6
	10 – 200 MHz	—	dB	—	0.4	0.7
Amplitude Balance	0.3–200 MHz	0	dB	—	± 0.1	± 0.5
Phase Balance	0.3–200 MHz	180	$^\circ$	—	± 0.3	± 3.0
Input Return Loss	0.3 - 5 MHz	—	dB	5	13	—
	5 - 200 MHz	—	dB	19	27	—

Note: Specifications subject to change without notice.

Absolute Maximum Ratings

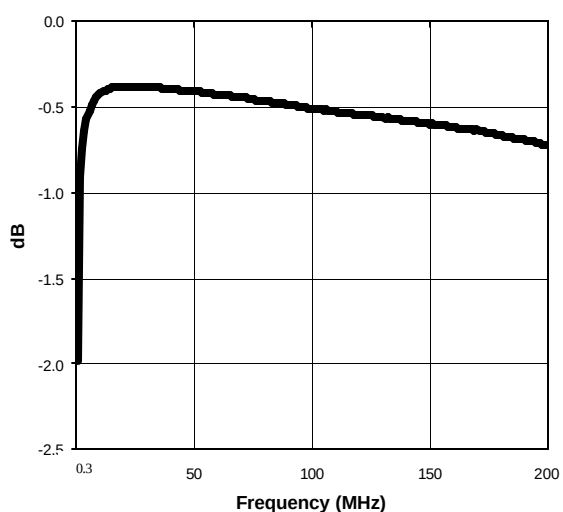
Parameter	Absolute Maximum
RF Power	250 mW
DC Current	30 mA
Storage Temperature	-40°C to +85°C
Operating Temperature	-40°C to +85°C

**Operating Characteristics**

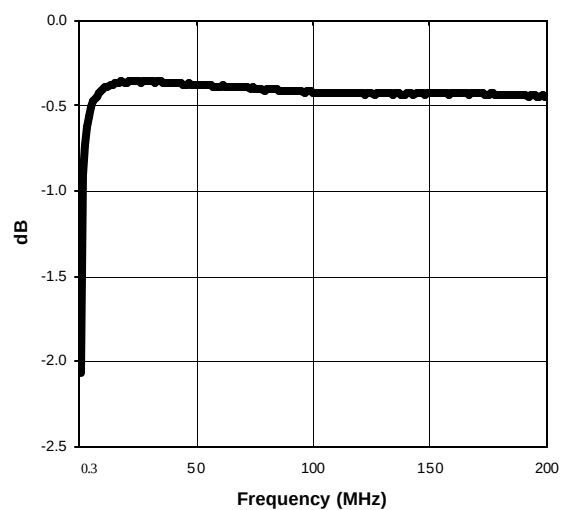
Function	Pin No.
Primary Dot (Input)	5
Primary (Ground)	4
Secondary Dot (Output 1)	1
Secondary (Output 2)	3
Secondary Center Tap (Ground)	2

Typical Performance @ +25° C

Insertion Loss 1: Pin 5–1
(Ref Value = -10.67 removed)



Insertion Loss 2: Pin 5–3
(Ref Value = -10.67 removed)



Rev A

Specifications subject to change without notice.

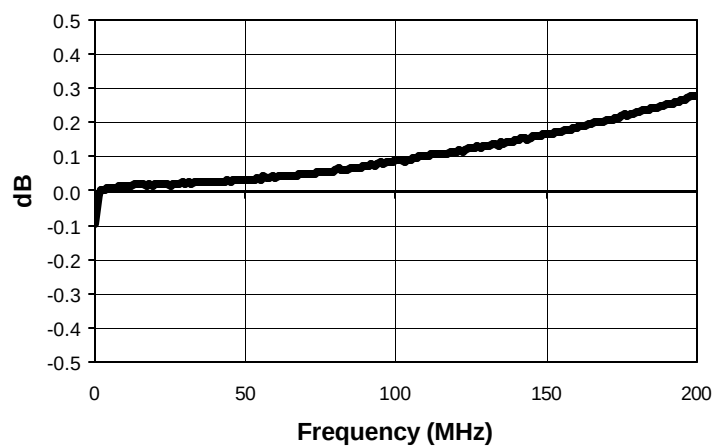
- North America: Tel. (800) 366-2266, Fax (800) 618-8883
- Asia/Pacific: Tel. +81-44-844-8296, Fax +81-44-844-8298
- Europe: Tel. +44 (1908) 574 200, Fax +44 (1908) 574 300

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

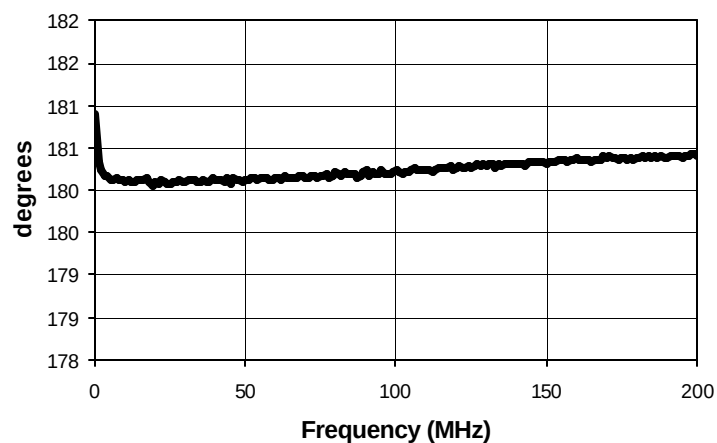
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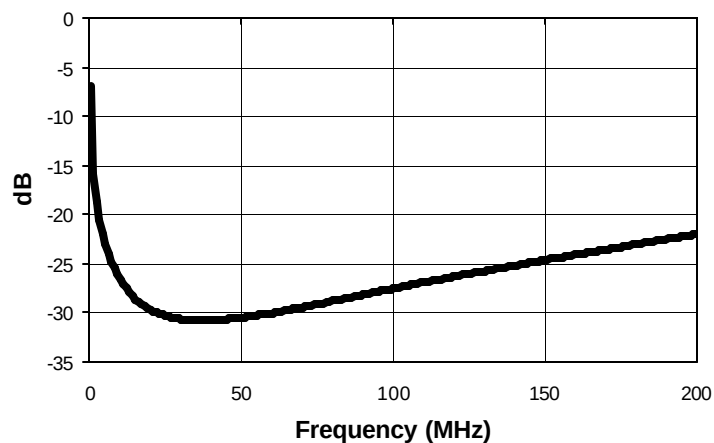
Amplitude Balance



Phase Balance



Input Return Loss



Rev A

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