



MABACT0045 Preliminary

Broadband CATV 4:1 Flux Coupled Transformer

Features

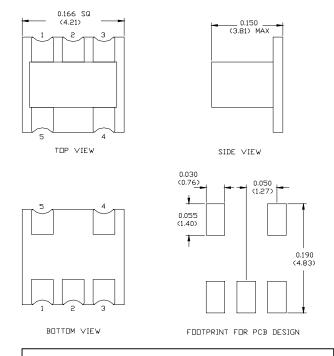
- SMT unit
- 4:1 impedance
- Available on tape & reel
- Excellent temperature stability

Description

M/A-COM's MABACT0045 is a low cost SMT 4:1 flux coupled transformer designed for high volume CATV Broadband applications. Suitable for use in 50 Ohm and 75 Ohm systems



SM-164 Case Style



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

Electrical Specifications @ 25°C, 75 Ohm

Parameter	Test Conditions	Units	Min.	Тур.	Max.
Frequency Range: 5-200 MHz					
Insertion Loss	5 - 65 MHz 65 - 200 MHz	dB dB	_	0.6 0.8	1.0 1.0
Amplitude Balance	50 – 200 MHz	dB	_	± 0.2	± 0.3
Phase Balance	5 - 65 MHz 65 - 200 MHz	0	_	± 0.1 ± 0.3	± 2.0 ± 3.0
Input Return Loss	5 - 65 MHz 65 - 200 MHz	dB dB	15 12	25 17	

[•] Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300

Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298





Broadband CATV 4:1 Flux Coupled Transformer

MABACT0045

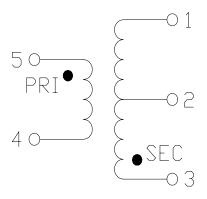
Pin Configuration

Function	Pin Number		
Primary Dot (input)	5		
Primary (ground)	4		
Secondary Dot (o/p 1)	3		
Secondary (o/p 2)	1		
Center Tap (ground)	2		

Absolute Maximum Ratings¹

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

Schematic



M/A-COM Inc. and its affiliates reserve the right to make changes to the

¹ Exceeding one or a combination of these settings may cause permanent damage to the unit

[•] Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300

Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298



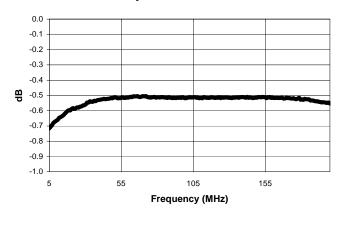


MABACT0045

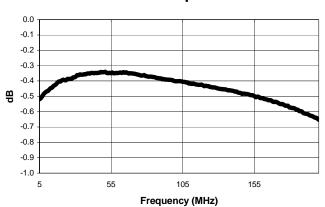
Broadband CATV 4:1 Flux Coupled Transformer

Typical Performance Curves @ +25°C, 75 Ohm

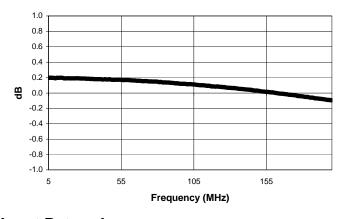
Insertion Loss 1: pin 5-3



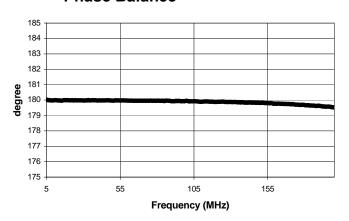
Insertion Loss 2: pin 5-1



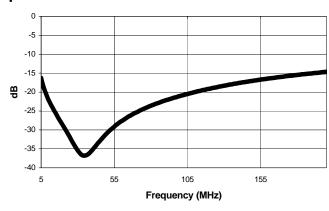
Amplitude Balance



Phase Balance



Input Return Loss



M/A-COM Inc. and its affiliates reserve the right to make changes to the product(s) or information contained herein without notice. M/A-COM makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does M/A-COM assume any liability whatsoever arising out of the use.

- North America Tel: 800.366.2266 / Fax: 978.366.2266
- Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300
- Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298