## 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


$$
\text { Dimensions in inches [mm] Tolerance: .xx } \pm .02, . x x x \pm .010
$$

Electrical Specifications @ $25^{\circ} \mathrm{C}$, 75 Ohm

| Parameter | Test Conditions | Units | Min. | Typ. | Max. |
| :--- | :---: | :--- | :--- | :---: | :---: |
| Frequency Range: $5-200 \mathrm{MHz}$ |  |  |  |  |  |
| Insertion Loss | $5-65 \mathrm{MHz}$ | dB | - | 0.6 | 1.0 |
|  | $65-200 \mathrm{MHz}$ | dB | - | 0.8 | 1.0 |
| Amplitude Balance | $50-200 \mathrm{MHz}$ | dB | - | $\pm 0.2$ | $\pm 0.3$ |
| Phase Balance | $5-65 \mathrm{MHz}$ |  |  |  |  |
| Input Return Loss | $65-200 \mathrm{MHz}$ | $\circ$ | - | $\pm 0.1$ | $\pm 2.0$ |
|  | $5-65 \mathrm{MHz}$ | dB | 15 | 25 | - |

- North America Tel: 800.366.2266 / Fax: 978.366.2266 product(s) or information contained herein without notice. M/A-COM makes
- Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300
- Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298

Electronics

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 |

## Schematic



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## Typical Performance Curves @ +25 ${ }^{\circ} \mathrm{C}, 75$ Ohm

Insertion Loss 1: pin 5-3


Insertion Loss 2: pin 5-1


Phase Balance


## Input Return Loss



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