## E-Series RF 1:1 Transformer with tap 50-1200 MHz

## Features

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



## Description

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

SM-138 Package


SUGGEST SOLIER FEITPRINT

## Schematic



## Electrical Specifications @ $25^{\circ} \mathrm{C}$ @ $0 d B m$

| Parameter | Units | Typical | Maximum | Minimum |  |
| :--- | :--- | :---: | :---: | :---: | :---: |
| Frequency Range | $50-1200 \mathrm{MHz}$ | MHz | - | - |  |
| Insertion Loss Pin 4-3 (Coupled) | $50-600 \mathrm{MHz}$ | dB | 0.8 | 1.0 | - |
| Insertion Loss Pin 4-1 (Thru) | $600-1200 \mathrm{MHz}$ | dB | 1.2 | 1.5 | - |
|  | $50-600 \mathrm{MHz}$ | dB | 0.8 | 1.0 | - |
| Amplitude Imbalance | $600-1200 \mathrm{MHz}$ | dB | 1.2 | - |  |
|  | $50-600 \mathrm{MHz}$ | dB | 0.1 | 0.2 | - |
| Phase Imbalance | $600-1200 \mathrm{MHz}$ | dB | 0.4 | 0.8 | - |
|  | $50-600 \mathrm{MHz}$ | Degrees | $1.0^{\circ}$ | $3.0^{\circ}$ | - |

[^0]
## Absolute Maximum Ratings

| Parameter | Absolute Maximum |
| :---: | :---: |
| RF Power | 250 mW |
| Operating/Storage Temperature | $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |
| Current DC | 50 mA |
| Current RMS | 10 mA |
| Current P-P for 1 hr | 80 mA |

## Typical Performance @ $+25^{\circ} \mathrm{C}$

## Insertion Loss Pin 4-1



## Phase Imbalance



[^1]
## Functional Configuration

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

Insertion Loss Pin 4-3


Amplitude Imbalance



[^0]:    S 1616B

    - North America Tel: 800.366.2266 • Europe Tel: +353.21.244.6400

[^1]:    ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed.
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