

1.5:1 Auto Transformer  
5-1000MHz

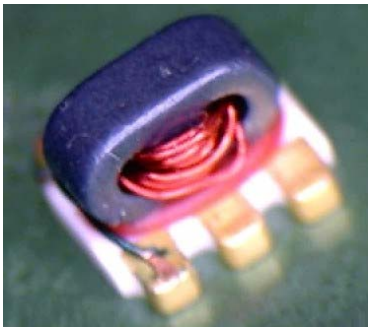
MABACT0063  
V1P

## Features

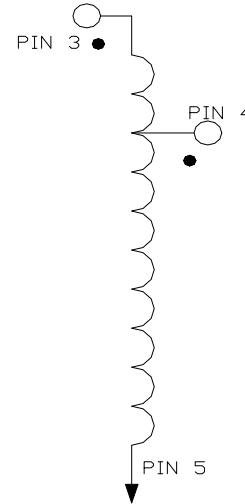
- Surface Mount
- 1.5:1 Impedance
- 260°C Reflow Compatible
- RoHS\* Compliant
- Available on Tape and Reel. Reel quantity 2000

## Description

M/A-COM's MABACT0063 is a 1.5:1 Auto Transformer in a low cost, surface mount package. Ideally suited for high volume CATV/Broadband applications.



## Schematic



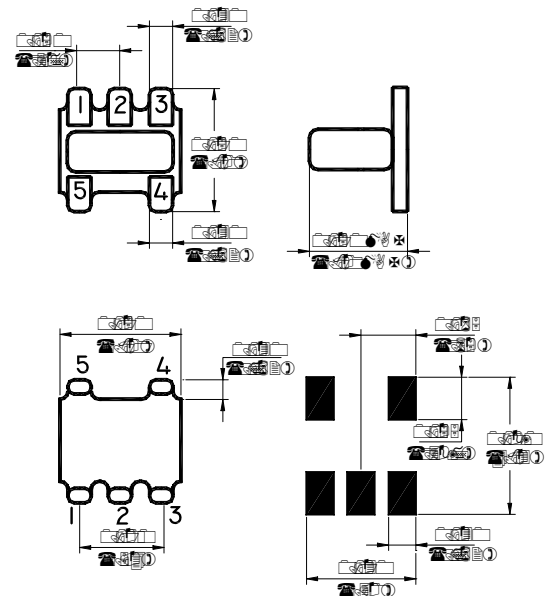
## Pin Configuration

Pin No.	Function
1	Not Connected
2	Not Connected
3	Primary Dot (e.g. 75 Ohms)
4	Secondary Dot (e.g. 50 Ohms)
5	Primary and Secondary (Ground)

## Ordering Information

Part Number	Package
MABACT0063TR	2000 piece reel

## Case Style: SM-22



Dimensions in inches [mm] Tolerance: .xx ± .02, .xxx ± .010

Note: Reference Application Note **M513** for reel size information.

\* Restrictions on Hazardous Substances, European Union Directive 2002/95/EC.

1.5:1 Auto Transformer  
5-1000MHz

MABACT0063  
V1P

**Electrical Specifications:**  $T_A = 25^\circ\text{C}$ ,  $Z_0 = 50\Omega$ <sup>1</sup>

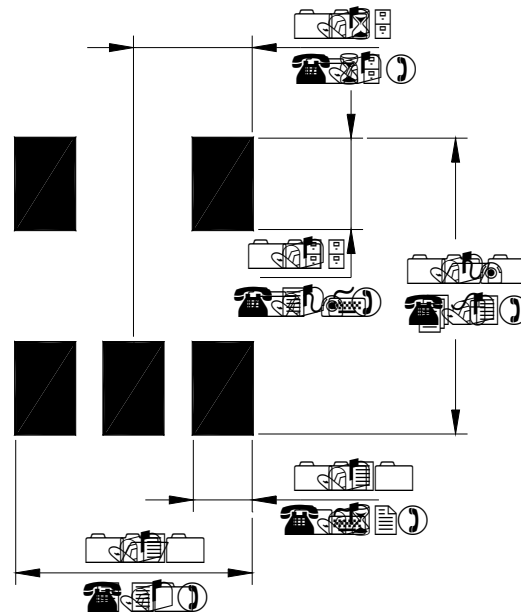
Parameter	Test Conditions	Frequency	Units	Min	Typ	Max
Insertion Loss	-	5 - 1000 MHz	dB	-	0.5	1.0
Input Return Loss	-	5 - 500 MHz	dB	24	30	-
Input Return Loss	-	500 - 1000 MHz	dB	16	26	-

## Absolute Maximum Ratings<sup>1,2</sup>

Parameter	Absolute Maximum
Max Input Power	250mW
DC current	100mA
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +100°C

- Exceeding any one or combination of these limits may cause permanent damage to this device.
- M/A-COM does not recommend sustained operation near these survivability limits.

## Recommended PCB Configuration

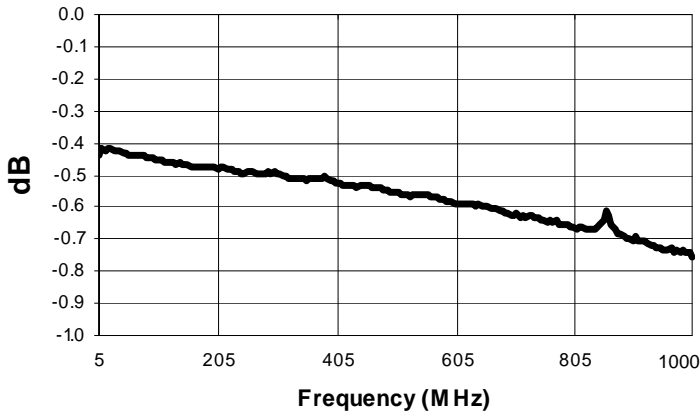


1.5:1 Auto Transformer  
5-1000MHz

MABACT0063  
V1P

## Typical Performance Curves

Insertion Loss: pin 4 to 3



Input Return Loss: pin 4

