

# MABACT0063

1.5:1 Auto Transformer  
5-1000MHz

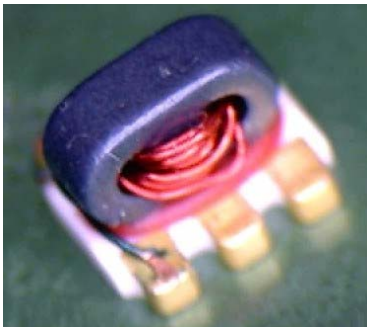
Rev V2

## Features

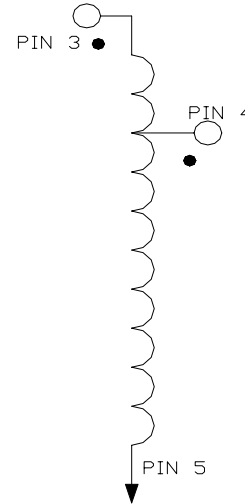
- Surface Mount
- 1.5:1 Impedance
- 260°C Reflow Compatible
- RoHS\* Compliant
- Available on Tape and Reel.

## Description

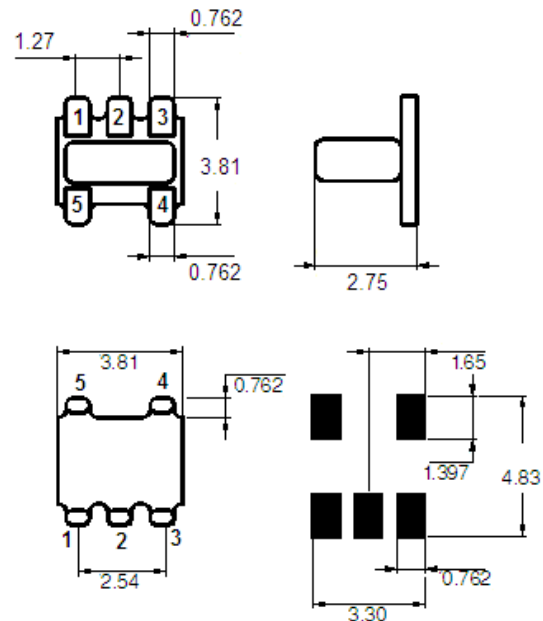
M/A-COM Technology Solutions MABACT0063 is a 1.5:1 Auto Transformer in a low cost, surface mount package. Ideally suited for high volume CATV/ Broadband applications.



## Schematic



## Component Dimensions:



Dimensions in mm, Tolerance: .xx ± .2, .xxx ± .1  
Drawing not to scale

## 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)

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

**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.

**PRELIMINARY:** Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in volume is not guaranteed.

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Visit [www.macomtech.com](http://www.macomtech.com) for additional data sheets and product information.

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

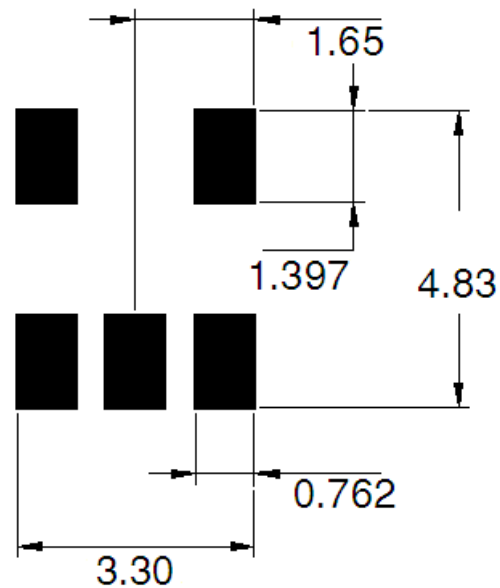
Parameter	Test Conditions	Frequency	Units	Min	Typ	Max
Insertion Loss	-	5 - 1000 MHz	dB	-	0.5	1.0
Input Return Loss	-	5 - 500 MHz	dB	24	30	-
Input Return Loss	-	500 - 1000 MHz	dB	16	26	-

**Recommended Maximum Ratings<sup>1,2</sup>**

Parameter	Value
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 Technology Solutions does not recommend sustained operation near these survivability limits.

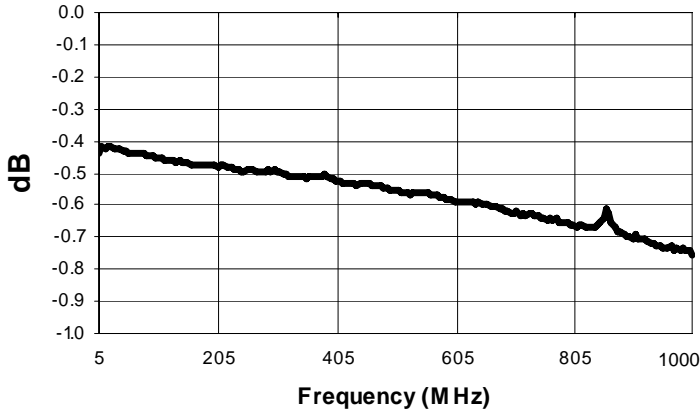
**Recommended PCB Configuration**



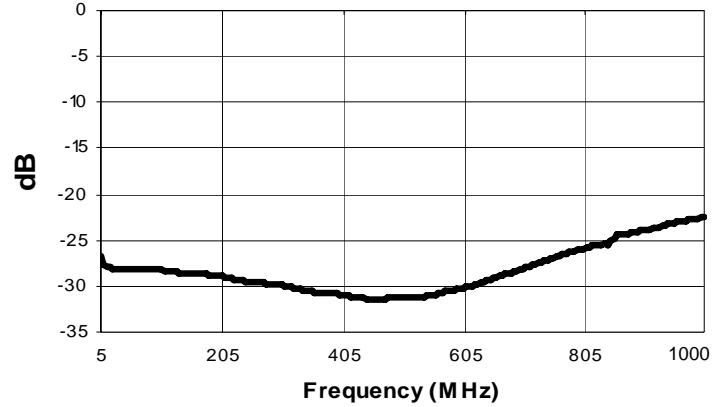
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Drawing not to scale

## Typical Performance Curves

Insertion Loss: pin 4 to 3



Input Return Loss: pin 4

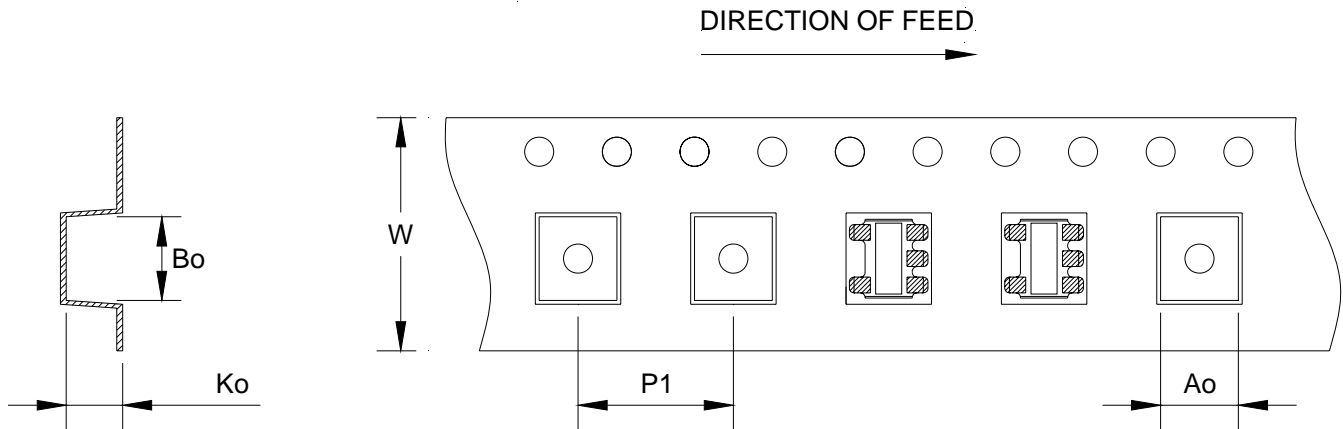


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## Tape Specification:



Item	Dimension
Ao	4.00mm +/-0.1mm
Bo	4.00mm +/-0.1mm
Ko	2.90mm +/-0.1mm
W	12.00mm +/-0.3mm
P1	8.00mm +/-0.1mm

## Ordering Information

Part Number	Package
MABACT0063TR	2000 piece reel