



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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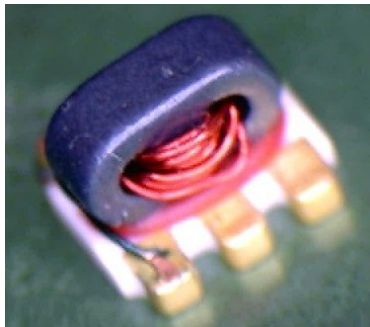


## Features

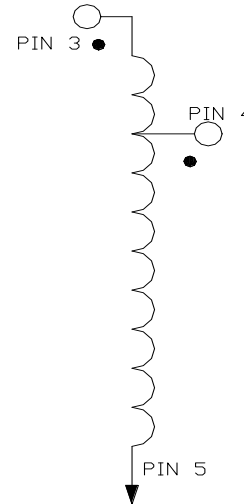
- Surface Mount
- 1.5:1 Impedance
- 260°C Reflow Compatible
- RoHS\* Compliant
- Available on Tape and Reel.

## Description

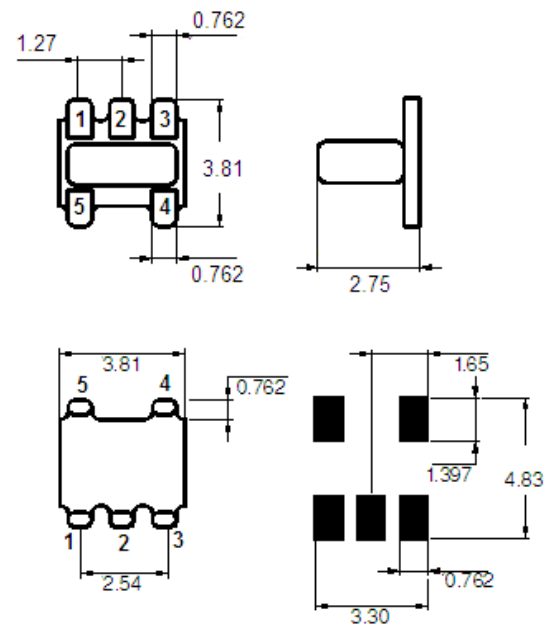
M/A-COM Technology Solutions MABACT0063 is a 1.5:1 Auto Transformer in a low cost, surface mount package. Ideally suited for high volume CATV/ Broadband applications.



## 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)

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

## 1.5:1 Auto Transformer 5-1000MHz

Rev. V3

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

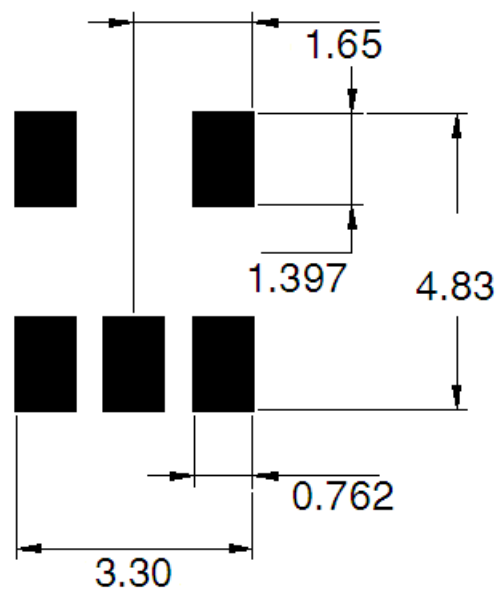
Parameter	Test Conditions	Frequency	Units	Min	Typ	Max
Insertion Loss	-	5 - 1000 MHz	dB	-	0.5	1.0
Input Return Loss	-	5 - 500 MHz	dB	24	30	-
Input Return Loss	-	500 - 1000 MHz	dB	16	26	-

### 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.

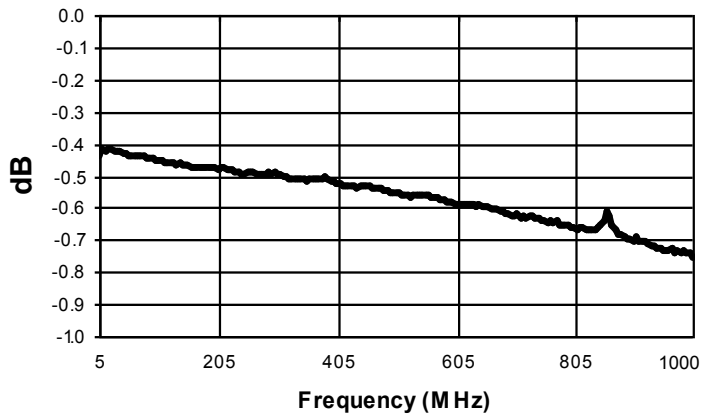
### Recommended PCB Configuration



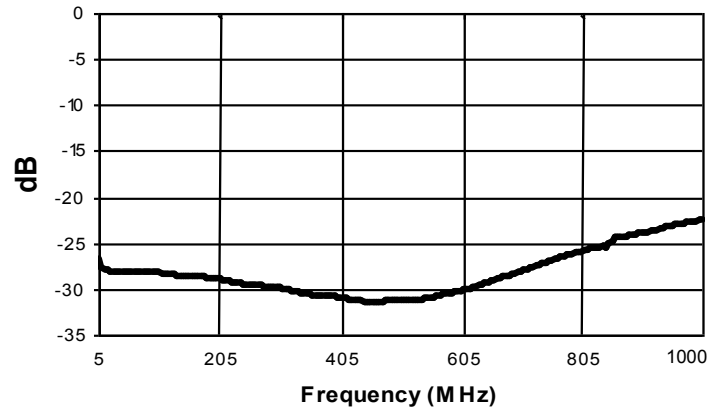
Dimensions in mm, Tolerance: .xx ± .2, .xxx ± .1  
Drawing not to scale

## Typical Performance Curves

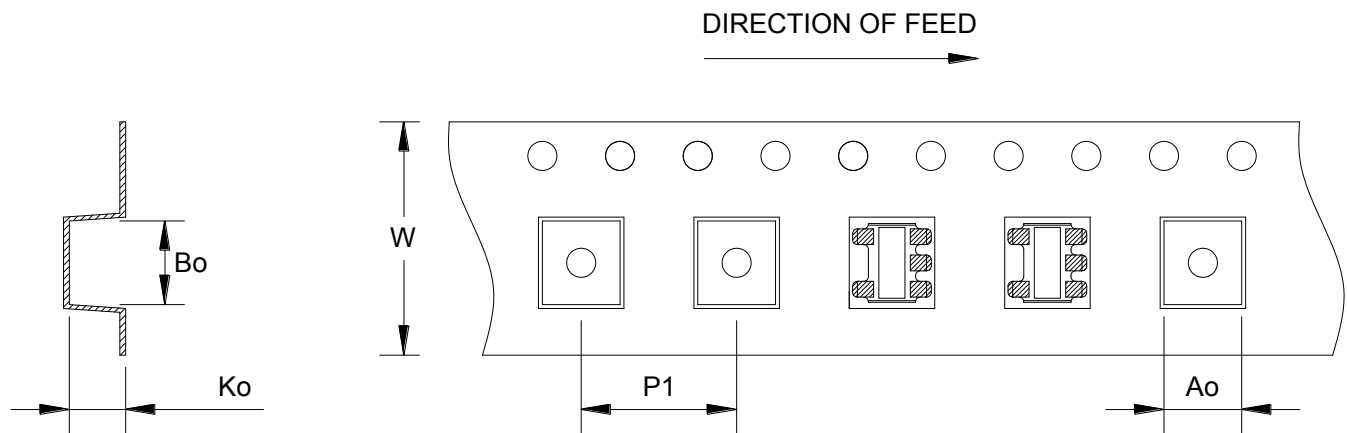
Insertion Loss: pin 4 to 3



Input Return Loss: pin 4



## 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

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