

1.5:1 Auto Transformer 5-1000MHz

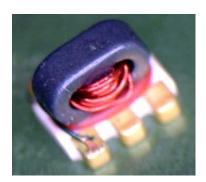
Rev V2

Features

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

Description

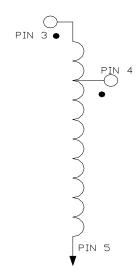
M/A-COM Technology Solutions MABACT0063 is a 1.5:1 Auto Transformer in a low cost, surface mount package. Ideally suited for high volume CATV/ Broadband applications.



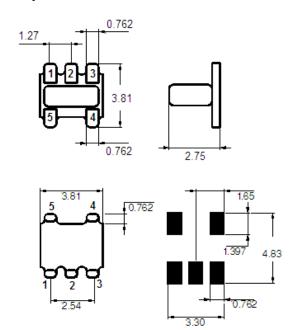
Pin Configuration

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)	

Schematic



Component Dimensions:



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

Commitment to produce in volume is not guaranteed.

- North America Tel: 800.366.2266 Europe Tel: +353.21.244.6400
- India Tel: +91.80.4155721
 - China Tel: +86.21.2407.1588 Visit www.macomtech.com for additional data sheets and product information.

^{*} Restrictions on Hazardous Substances, European Union Directive 2002/95/EC.

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Electrical Specifications: $T_A = 25$ °C, $Z_0 = 50\Omega$ ¹

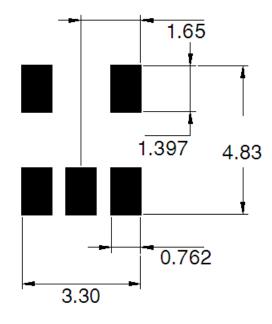
Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
Insertion Loss	-	5 - 1000 MHz	dB	-	0.5	1.0
Input Return Loss	-	5 - 500 MHz	dB	24	30	-
Input Return Loss	-	500 - 1000 MHz	dB	16	26	-

Recommended Maximum Ratings 1,2

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

- 1. Exceeding any one or combination of these limits may cause permanent damage to this device.
- 2. 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

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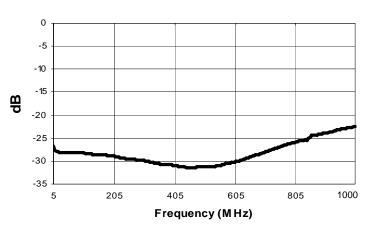
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Typical Performance Curves

Insertion Loss: pin 4 to 3

0.0 -0.1 -0.2 -0.3 -0.4 -0.5 -0.6 -0.7 -0.8 -0.9 5 205 405 805 1000 Frequency (MHz)

Input Return Loss: pin 4



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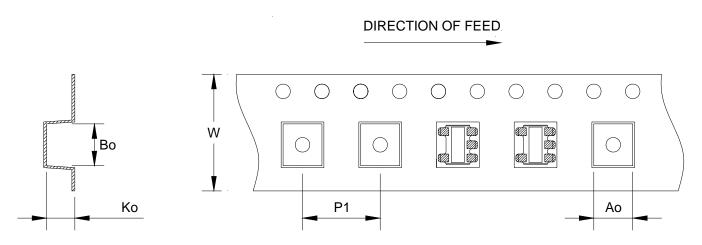
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Tape Specification:



Item	Dimension
Ao	4.00mm +/-0.1mm
Во	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