

### **Excellent Integrated System Limited**

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M/A-Com Technology Solutions MABACT0063

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# **MABACT0063**

#### 1.5:1 Auto Transformer 5-1000MHz

#### Features

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

#### Description

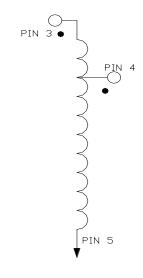
M/A-COM Technology Solutions MABACT0063 is a 1.5:1 Auto Transformer in a low cost, surface mount package. Ideally suited for high volume CATV/ Broadband applications.



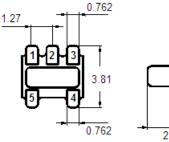
#### **Pin Configuration**

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)	

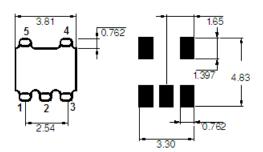
#### Schematic



#### **Component Dimensions:**







Dimensions in mm, Tolerance: .xx  $\pm$  .2, .xxx  $\pm$  .1 Drawing not to scale

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

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Rev. V3



### **MABACT0063**



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Rev. V3

### Electrical Specifications: $T_A = 25^{\circ}C$ , $Z_0 = 50\Omega^{-1}$

Parameter	Test Conditions	Frequency	Units	Min	Тур	Мах
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	-

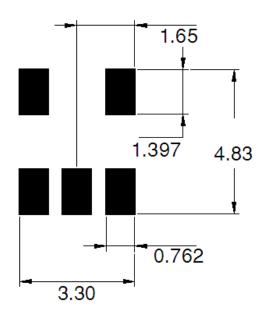
#### **Recommended Maximum Ratings**<sup>1,2</sup>

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

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  $\pm$  .2, .xxx  $\pm$  .1 Drawing not to scale

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Input Return Loss: pin 4

# **MABACT0063**

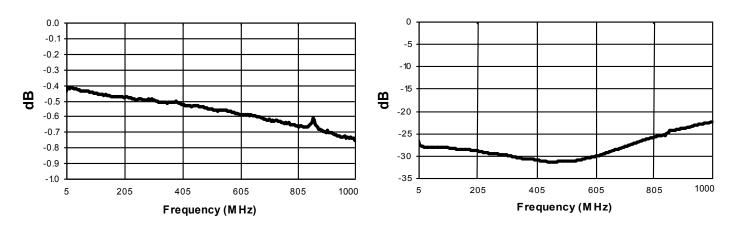


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#### **Typical Performance Curves**

Insertion Loss: pin 4 to 3



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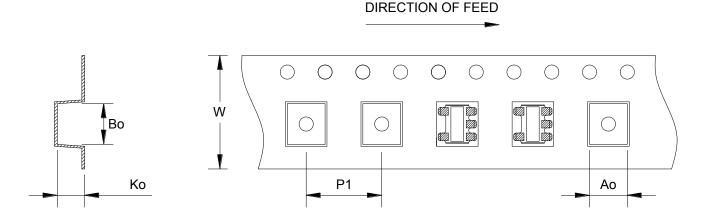
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#### **Tape Specification:**



ltem	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

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<sup>4</sup> 



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Rev. V3

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