

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

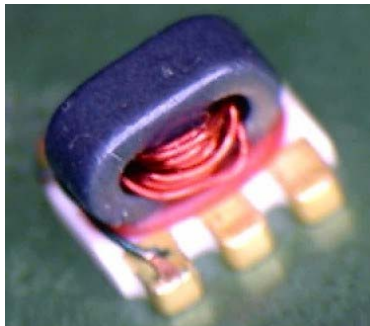
**MABACT0063  
V1P**

**Features**

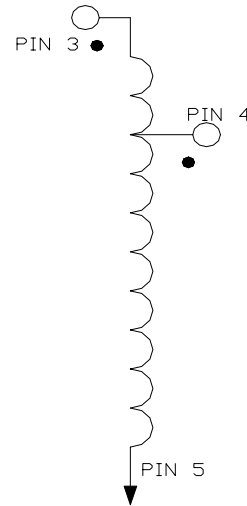
- Surface Mount
- 1.5:1 Impedance
- 260°C Reflow Compatible
- RoHS\* Compliant
- Available on Tape and Reel. Reel quantity 2000

**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.



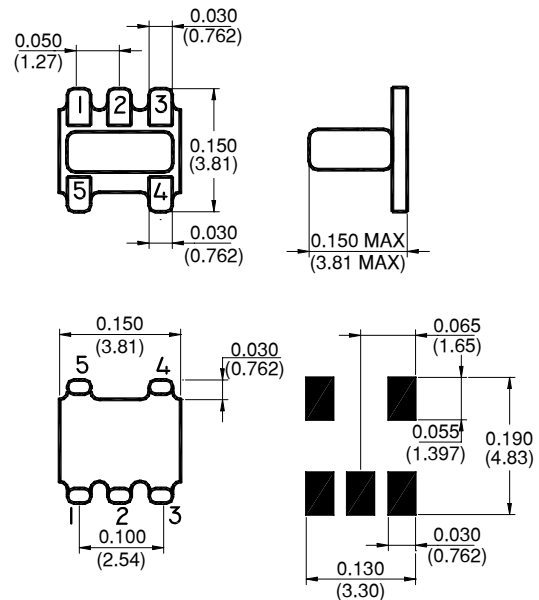
**Schematic**



**Case Style: SM-22**

**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)



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

**Ordering Information**

Part Number	Package
MABACT0063TR	2000 piece reel

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

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

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

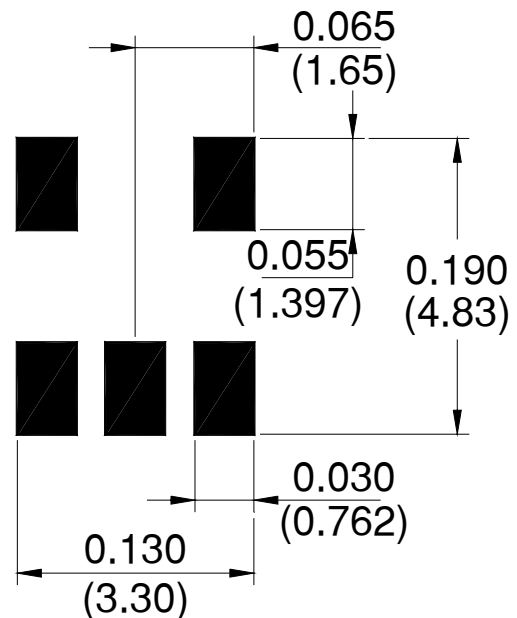
Parameter	Test Conditions	Frequency	Units	Min	Typ	Max
Insertion Loss	-	5 - 1000 MHz	dB	-	0.5	1.0
Input Return Loss	-	5 - 500 MHz	dB	24	30	-
Input Return Loss	-	500 - 1000 MHz	dB	16	26	-

**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

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

**Recommended PCB Configuration**

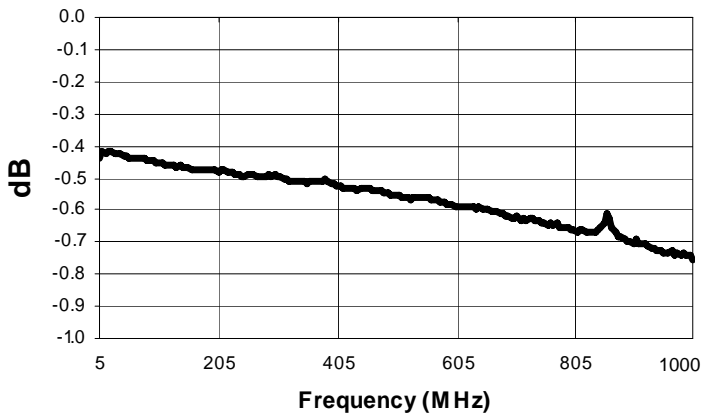


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**Typical Performance Curves**

**Insertion Loss: pin 4 to 3**



**Input Return Loss: pin 4**

