

# RoHS Compliant



**4:1 Auto Transformer  
5-1200MHz**

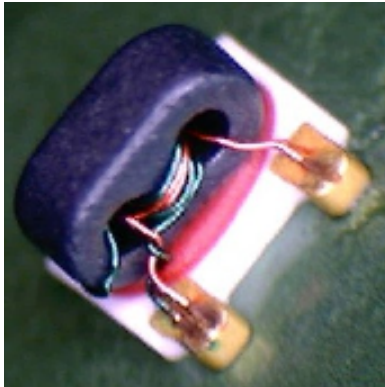
**MABACT0061  
V1P**

## Features

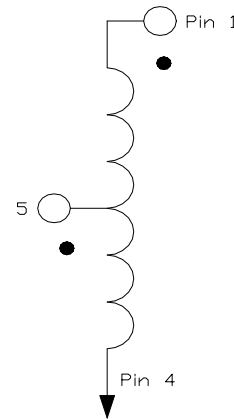
- Surface Mount
- 4:1 Impedance, unbalanced to unbalanced
- 260°C Reflow Compatible
- RoHS\* Compliant
- Available on Tape and Reel. Reel quantity 2000

## Description

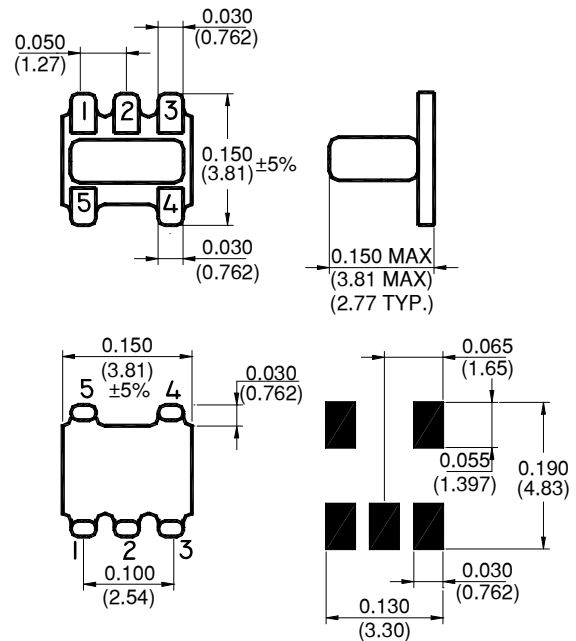
M/A-COM's MABACT0061 is a 4:1 Auto transformer in a low cost, surface mount package. Ideally suited for high volume CATV/Broadband applications.



## Schematic



## Case Style: SM-22



## Pin Configuration

Pin No.	Function
1	Secondary Dot (e.g. 200 Ohm)
2	Not connected (ground)
3	Not connected (ground)
4	Primary & Secondary (ground)
5	Primary Dot (e.g. 50 Ohms)

## Ordering Information

Part Number	Package
MABACT0061TR	2000 piece reel

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

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

1

**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.

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

M/A-COM Technology Solutions Inc. and its affiliates reserve the right to make changes to the product(s) or information contained herein without notice.

## 4:1 Auto Transformer 5-1200MHz

MABACT0061  
V1P

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

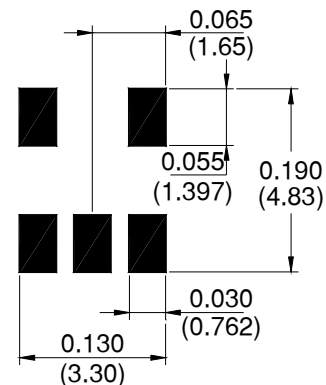
Parameter	Test Conditions	Units	Min	Typ	Max
Insertion Loss	5 - 600 MHz	dB	-	1.2	1.5
Insertion Loss	600 - 1000 MHz	dB	-	1.6	2.1
Insertion Loss	1000 - 1200 MHz	dB	-	2.1	2.6
Input Return Loss	5 - 20 MHz	dB	9	11	-
Input Return Loss	20 - 120 MHz	dB	11	13	-
Input Return Loss	120 - 1000 MHz	dB	5	10	-
Input Return Loss	1000 - 1200 MHz	dB	4	5	-

### Absolute Maximum Ratings<sup>1,2</sup>

Parameter	Absolute Maximum
Max Input Power	250mW
DC current	240mA
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 does not recommend sustained operation near these survivability limits.

### Recommended PCB Configuration



# RoHS Compliant



4:1 Auto Transformer  
5-1200MHz

MABACT0061  
V1P

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

