

## Features

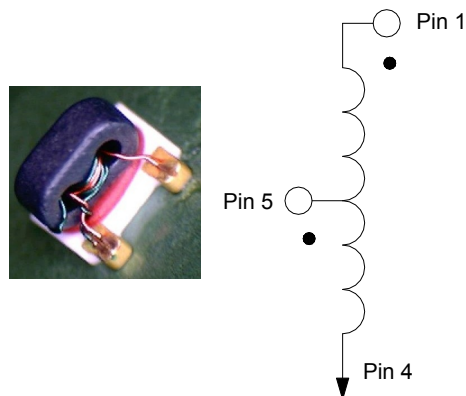
- 4:1 Impedance Ratio (unbalanced to unbalanced)
- Surface Mount Package
- Excellent Temperature Stability
- RoHS Compliant and Pb Free
- 260°C Reflow Compatible
- Available on Tape and Reel
- Suitable for all CATV, Broadband and FTTx Applications

## Description

The MABACT0061 is a 4:1 auto transformer in a surface mount package.

Ideally suited for high volume CATV Broadband applications.

## Functional Schematic



## Pin Configuration

Pin #	Function
1	Secondary Dot (e.g. 200 Ohms)
2, 3	Not connected (ground)
4	Primary & Secondary (ground)
5	Primary Dot (e.g. 50 Ohms)

## Electrical Specifications: Freq. = 5 - 1200 MHz, T<sub>A</sub> = +25°C, Z<sub>0</sub> = 50 Ω, P<sub>IN</sub> = 0 dBm

Parameter	Frequency Test Conditions (MHz)	Units	Min.	Typ.	Max.
Impedance Ratio	—	ratio	—	4:1	—
Insertion Loss	5 - 600	dB	—	1.2	1.5
	600 - 1000			1.6	2.1
	1000 - 1200			2.1	2.6
Input Return Loss	5 - 20	dB	9	11	—
	20 - 120		11	13	
	120 - 1000		5	10	
	1000 - 1200		4	5	

## Ordering Information

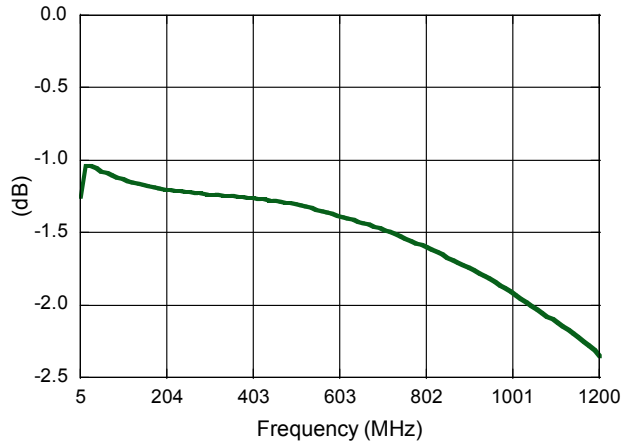
Part Number	Package
MABACT0061	2000 piece reel

## Recommended Maximum Ratings

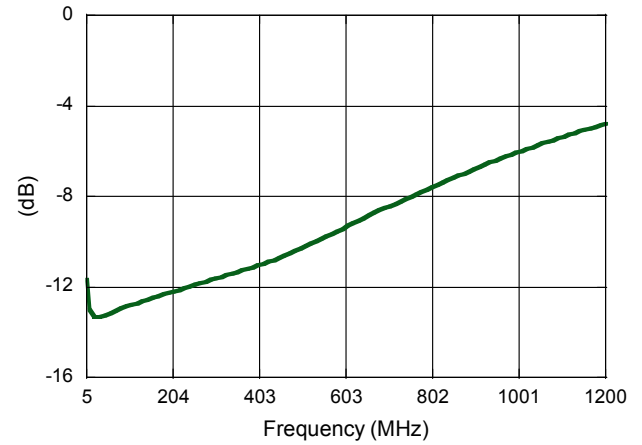
Parameter	Units
RF Input Power	250 mW
DC Current	240 mA
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +100°C

## Typical Performance Curves

**Insertion Loss (Pin 5 to Pin 1)**

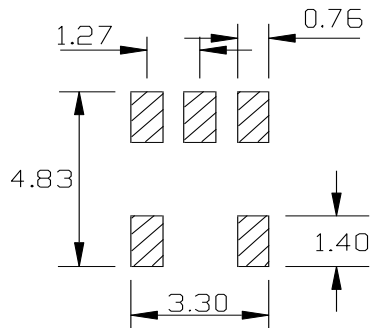


**Input Return Loss**

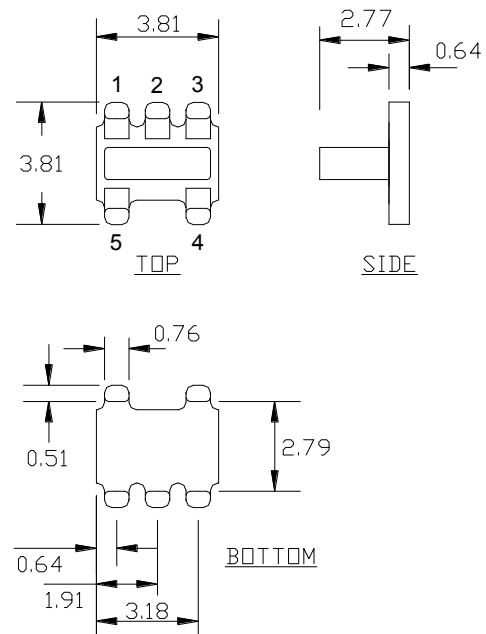


Full temperature plots available on request.

## Recommended PCB Configuration



## Outline Drawing (SM-22)



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

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