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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





4:1 Flux Coupled Transformer 1-350MHz



- Surface Mount •
- 4:1 Impedance
- Excellent amplitude and phase balance
- Can be used in both 50 Ω and 75 Ω systems •
- 260°C Reflow Compatible •
- **RoHS*** Compliant •
- Available on Tape and Reel. Reel quantity 2000 •

Description

M/ACom's MABACT0067 is a 4:1 RF flux coupled step up transformer in a low cost, surface mount package. Ideally suited for high volume CATV/ Broadband applications.

Schematic

RoHS

Compliant



Case Style: SM-164













Pin Configuration

1

Pin No.	Function		
1	Secondary Dot (output 1)		
2	Centre Tap (ground)		
3	Secondary (output 2)		
4	Primary Dot (Input)		
5	5 Primary (Ground)		

Note: Reference Application Note M513 for reel size information.

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

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Ordering Information

Part Number	Package
MABACT0067TR	2000 piece reel

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

• North America Tel: 800.366.2266 / Fax: 978.366.2266

- Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300
- Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298

Visit www.macom.com for additional data sheets and product information.



MABACT0067

V1P



Electronics

RoHS Compliant

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4:1 Flux Coupled Transformer 1-350MHz

MABACT0067 V1P

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

Parameter	Test Conditions	Units	Min	Тур	Мах
Insertion Loss 1 (pin 4-1)	1 - 5 MHz 5 - 200 MHz 200 - 350 MHz	dB	- - -	1.6 0.9 1.0	2.0 1.0 1.5
Insertion Loss 2 (pin 4-3)	1 - 5 MHz 5 - 150 MHz 150 - 350 MHz	dB	- - -	1.5 0.9 1.1	2.0 1.0 1.5
Amplitude Unbalance (Nominal 0dB)	1 - 250 MHz 250 - 350 MHz	dB	-	±0.1 ±0.2	±0.2 ±0.3
Phase Unbalance (Nominal 180°)	1 - 150 MHz 150 - 350 MHz	o	-	±1.0 ±2.0	±2.0 ±5.0
Input Return Loss	1 - 5 MHz 5 - 200 MHz 200 - 350 MHz	dB	10 15 11	12 19 14	

Absolute Maximum Ratings ^{1,2}

Parameter	Absolute Maximum
Max Input Power	250mW
DC current	240mA
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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4:1 Flux Coupled Transformer 1-350MHz

MABACT0067 V1P

MACCM

Typical Performance Curves: $T_A = 25^{\circ}C$, $Z_0 = 50\Omega$

Insertion Loss 1 (pin 4 to pin 1)



Insertion Loss 2 (pin 4 to pin 3)



Amplitude Unbalance



Input Return Loss



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Phase Balance



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Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298 •

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