

E-Series RF 1:3 Transformer 2-500 MHz

Rev. V3

Features

- 1:3 Impedance Ratio
- Surface Mount
- Tape and reel packaging available
- 260°C Reflow Compatible
- RoHS* compliant

Description

M/A-COM's MABA-009484-ETC31T is a RoHS Compliant 1:3 RF flux coupled transformer in a low cost, surface mount package. Typical applications include single to balanced mode conversion.

The MABA-009484-ETC31T is available in a SM-22 surface mount package and is designed to be utilized in both RoHS and standard reflow profiles. Parts are packaged in tape & reel.

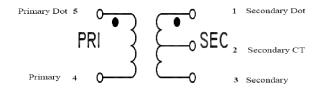
Product Image



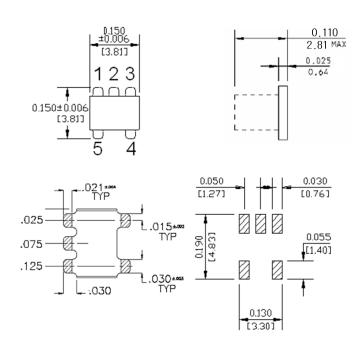
Pin Configuration

Pin No.	Function		
1	Secondary Dot		
2	Secondary CT		
3	Secondary		
4	Primary		
5	Primary Dot		

Schematic



SM - 22 Package



* Dimensions are inches (millimeters) ±0.015 (0.38) unless otherwise specified.

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Commitment to produce in volume is not guaranteed.

- North America Tel: 800.366.2266 Europe Tel: +353.21.244.6400
- India Tel: +91.80.43537383
- China Tel: +86.21.2407.1588

Visit 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.

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



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Electrical Specifications: $T_A = 25$ °C, $Z_0 = 50\Omega$

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
RF Frequency	_	2 - 500	MHz	_	_	_
Insertion Loss	_	2 - 500 5-300	dB dB	_	0.7 0.6	2 1
Amplitude Imbalance	_	2 - 500	dB	_	0.3	1
Phase Imbalance	_	2 - 500	Degrees	_	_	1
Input Return Loss	_	2 - 400 400-500	dB dB	20 16	27 18	30 25

Absolute Maximum Ratings 1,2

Parameter	Absolute Maximum		
DC Power	250 mW		
DC Current	50 mA		
Operating Temperature	-40°C to +85°C		
Storage Temperature	-55°C to +125°C		

^{1.} Exceeding any one or combination of these limits may cause permanent damage to this device.

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^{2.} M/A-COM does not recommend sustained operation near these survivability limits.

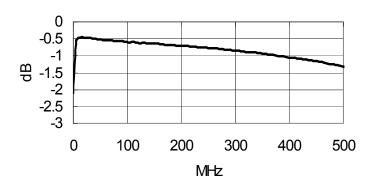


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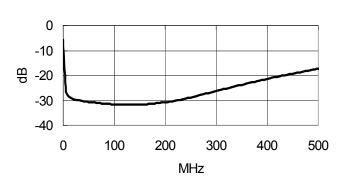
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Typical Performance Curves

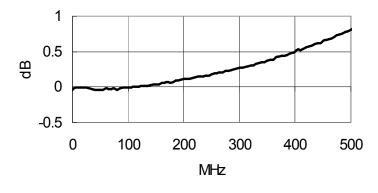
Insertion Loss



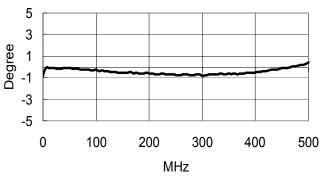
Input Return Loss



Amplitude Balance



Phase Balance



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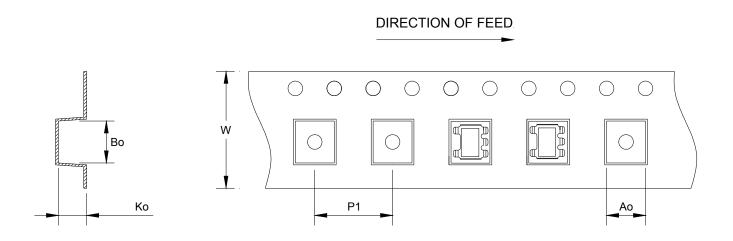
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Tape & Reel Information



Item	Dimension
Ao	4.00mm +/-0.1mm
Во	4.00mm +/-0.1mm
Ko	2.9mm +/-0.1mm
W	12.00mm +/-0.3mm
P1	8.00mm +/-0.1mm

Ordering Information

Part Number	Package	
MABA-009484-ETC31T	Tape and Reel (2000 piece Reel)	

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