MABA-009487-60HWCA



E-Series RF 1:1 Transformer 0.4-500MHz

M/A-COM Products Rev. V4

Features

- Surface Mount
- 1:1 Impedance Ratio
- · CT on Secondary
- RoHS* Compliant 1:1 transformer
- Tape and reel packaging available

Description

M/A-COM's MABA-009487-60HWCA is a RoHS compliant 1:1 RF flux coupled transformer in a low cost, surface mount package. Ideally suited for high volume cellular and wireless applications. Typical applications include single to balanced mode conversion and impedance matching. The MABA-009487-60HWCA transformer is is designed to be utilized in both standard reflow and high temperature soldering reflow profiles.



Ordering Information

Part Number	Package				
MABA-009487-60HWCA	Tape and Reel (2000 piece reels)				

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

Pin Configuration

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max	Pin No.	Function
RF Frequency	_	0.4 - 500	MHz	_	_	_	1	Secondary
Insertion Loss	_	0.4 - 200	dB	_	0.2	0.6	2	Secondary CT
		200 - 400 400 - 500	dB dB		1.2 2.3	2 3	3	Secondary Dot
Amplitude Imbalance	_	0.4 - 500	dB	_	0.5	2	4	Primary Dot
Phase Imbalance	_	0.4 - 500	Degrees	_	1	3	5	Primary
Input Return Loss	_	2 - 100 0.4 - 200	dB dB	_	26 20	20 13		

dВ

200 - 500

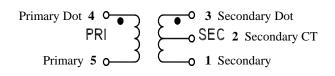
Absolute Maximum Ratings ^{1,2}

Parameter	Absolute Maximum				
RF Power	250 mW				
DC Current	240 mA ²				
Operating Temperature	-40°C to +85°C				
Storage Temperature	-55°C to +125°C				

- Operation of this device above any one of these parameters may cause permanent damage.
- The maximum DC current applies to the secondary center tap in applications where the secondary is balanced.

Schematic

Product Image



- 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 for additional data sheets and product information.

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

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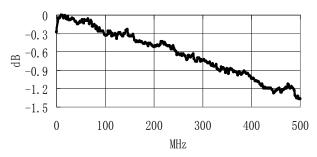


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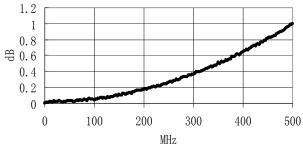
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Typical Performance Curves

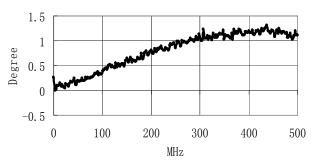
Insertion Loss



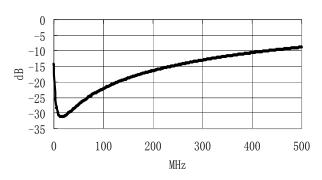
Amplitude Unbalance



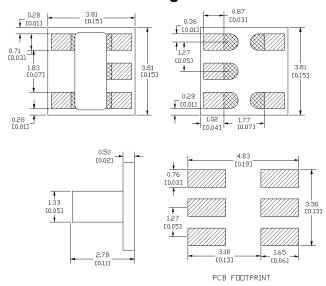
Phase Unbalance



Input Return Loss



SM-195 Outline Drawing



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

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