MABA-009488-61HWCA

E-Series RF 1:4 Transformer 3-800 MHz

Features

- 1:4 Impedance Ratio
- Surface Mount
- Tape and reel packaging available
- 260°C Reflow Compatible
- RoHS* compliant

Description

M/A-COM's MABA-009488-61HWCA is a RoHS Compliant 1:4 RF flux coupled transformer in a low cost, surface mount package. Typical applications include single to balanced mode conversion.

The MABA-009488-61HWCA is designed to be utilized in both RoHS and standard reflow profiles. Parts are packaged in tape & reel.

Ordering Information

Part Number	Package
MABA-009488-61HWCA	Tape and Reel (2000 piece Reel)

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

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
RF Frequency	—	3 - 800	MHz	Ι	—	—
Insertion Loss	_	3 - 400 400-800	dB dB		0.6 1.5	1 3
Amplitude Imbalance	_	3 - 400 400-800	dB dB		0.1 0.7	0.5 1.5
Phase Imbalance	_	3 - 400 400-500	Degrees Degrees	_	0.3 3	3 10
Input Return Loss	_	3 - 400 400-800	dB dB	13 10	22 11	30 13

Pin Configuration

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

Absolute Maximum Ratings

1

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

1. 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.

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.

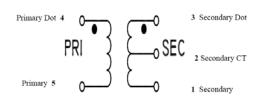
PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in volume is not guaranteed.

WWW .

BD

Schematic

Product Image



North America Tel: 800.366.2266
Europe Tel: +353.21.244.6400
India Tel: +91.80.4155721
Visit www.macomtech.com for additional data sheets and product information.

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COM/MA

M/A-COM Products Rev. V3



MABA-009488-61HWCA

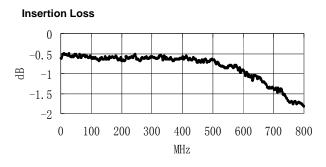


M/A-COM Products

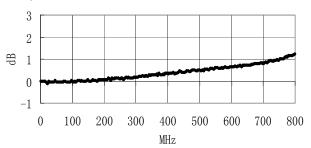
Rev. V3

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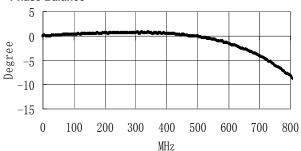
Typical Performance Curves at +25°C



Amplitude Balance

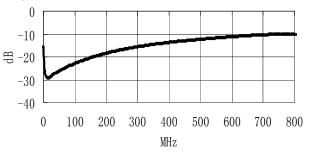


Phase Balance

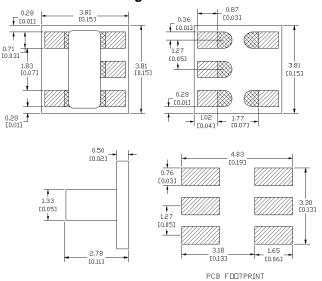


Input Return Loss

2



SM-195 Outline Drawing



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

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