

## E-Series RF 2:1 Transformer 3-300 MHz

M/A-COM Products  
Advanced - Rev. V1

### Features

- 2:1 Impedance Ratio
- Surface Mount
- Tape and reel packaging available
- 260°C Reflow Compatible
- RoHS\* compliant

### Description

M/A-COM's MABA-009250-CT0068 is a RoHS Compliant 2:1 RF transformer in a low cost, surface mount package. Typical applications include single to balanced mode conversion and impedance matching.

The MABA-009250-CT0068 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.

### Ordering Information

Part Number	Package
MABA-009250-CT0068	Tape and Reel (2000 piece Reel)

### Product Image



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

Parameter	Test Conditions	Frequency	Units	Min	Typ	Max
RF Frequency	—	3 - 300	MHz	—	—	—
Insertion Loss	—	3 - 300	dB	—	0.7	1.6
Amplitude Imbalance	—	3 - 300	dB	—	0.4	1.2
Phase Imbalance	—	3 - 300	Degrees	—	—	2.0

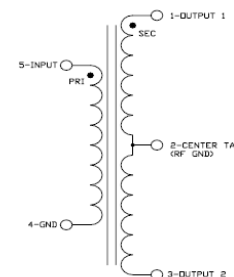
### Pin Configuration

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

### Absolute Maximum Ratings

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

### Schematic



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.

1

**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.

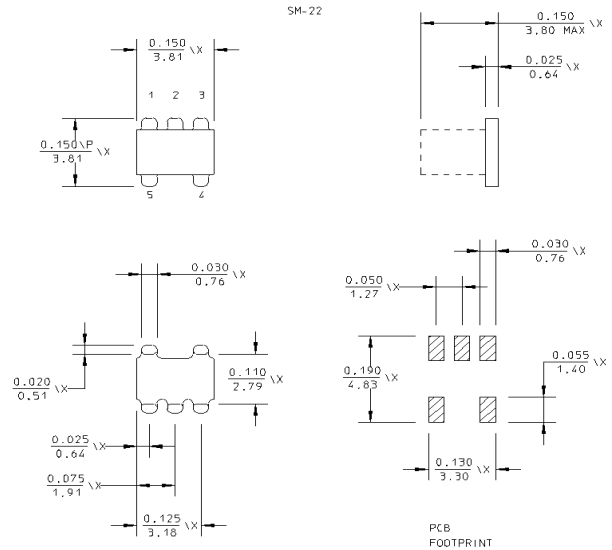
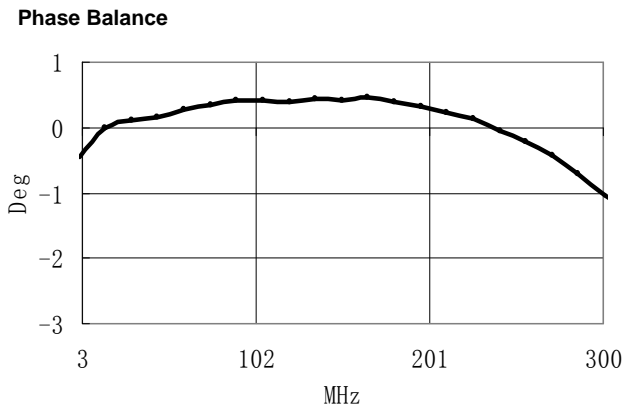
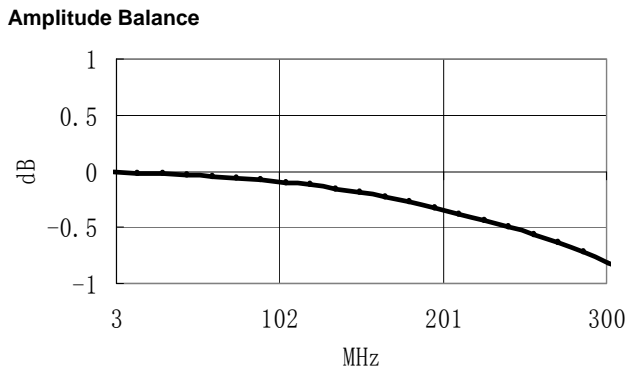
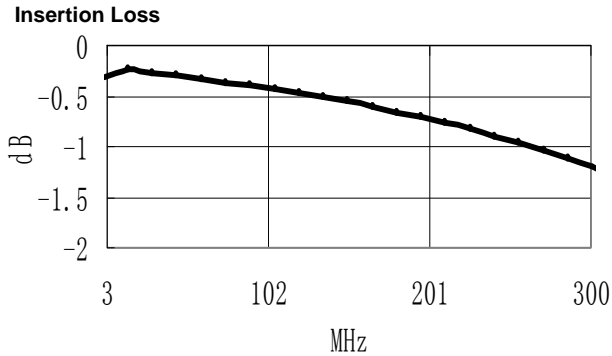
**PRELIMINARY:** Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce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

• **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](http://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.

Typical Performance Curves at +25°C

SM - 22 Package



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