

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

M/A-COM Products  
Rev. V3

### Features

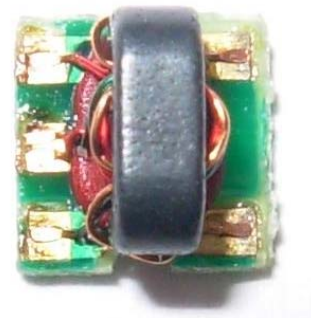
- 1:4 Impedance Ratio
- Surface Mount
- Tape and reel packaging available
- 260°C Reflow Compatible
- RoHS\* compliant

### 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.

### Product Image



### Ordering Information

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

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

Parameter	Test Conditions	Frequency	Units	Min	Typ	Max
RF Frequency	—	3 - 800	MHz	—	—	—
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

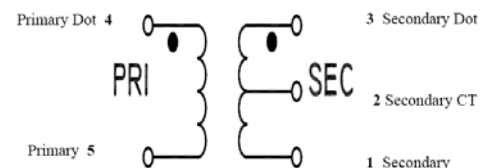
Pin No.	Function
1	Secondary
2	Secondary CT
3	Secondary Dot
4	Primary Dot
5	Primary

### Absolute Maximum Ratings

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

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.

### Schematic

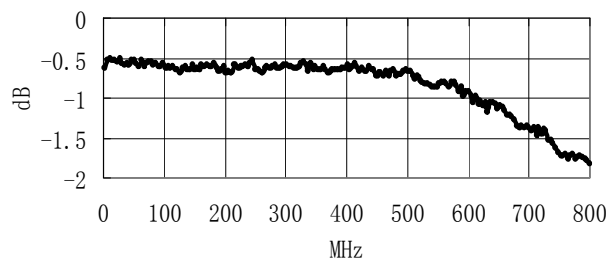


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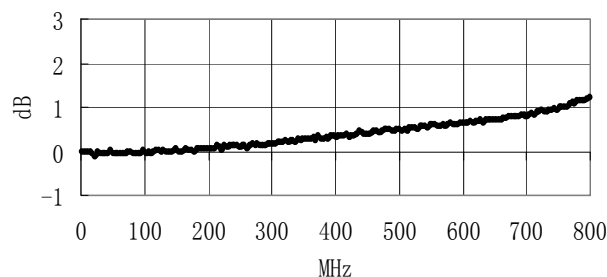
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### Typical Performance Curves at +25°C

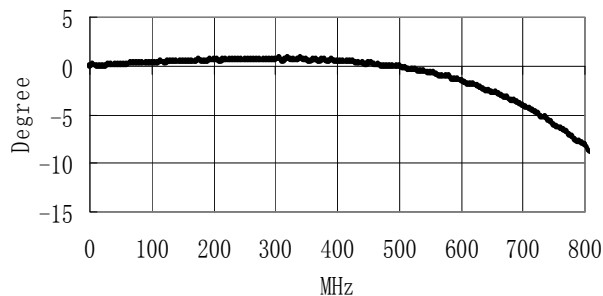
Insertion Loss



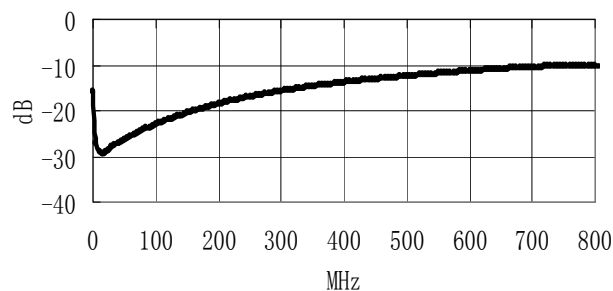
Amplitude Balance



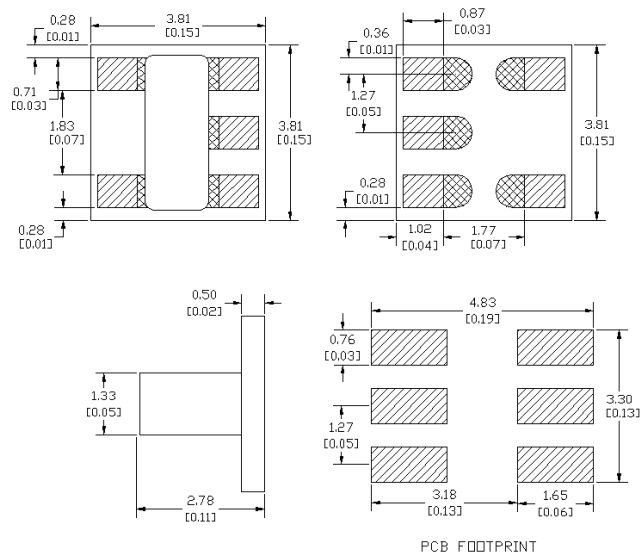
Phase Balance



Input Return Loss



### SM-195 Outline Drawing



\* Dimensions are millimeters (inches)  $\pm 0.38$  (0.015) unless otherwise specified.

# Mouser Electronics

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MACOM:

[MABA-009488-61HWCA](#)