

## Features

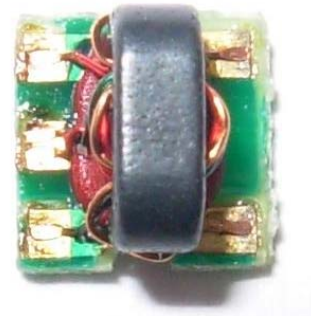
- 1:4 Impedance Ratio
- Surface Mount
- Tape and reel packaging available
- 260°C Reflow Compatible
- RoHS\* compliant

## 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	dB	—	0.6	1
		400-800	dB	—	1.5	3
Amplitude Imbalance	—	3 - 400	dB	—	0.1	0.5
		400-800	dB	—	0.7	1.5
Phase Imbalance	—	3 - 400	Degrees	—	0.3	3
		400-500	Degrees	—	3	10
Input Return Loss	—	3 - 400	dB	13	22	30
		400-800	dB	10	11	13

## Pin Configuration

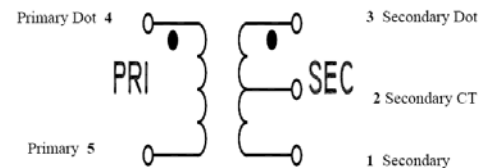
Pin No.	Function
1	Secondary
2	Secondary CT
3	Secondary Dot
4	Primary Dot
5	Primary

## Absolute Maximum Ratings

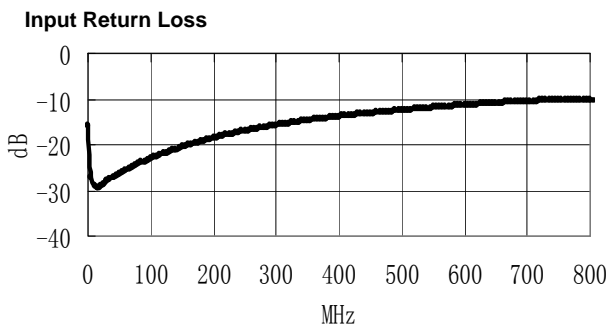
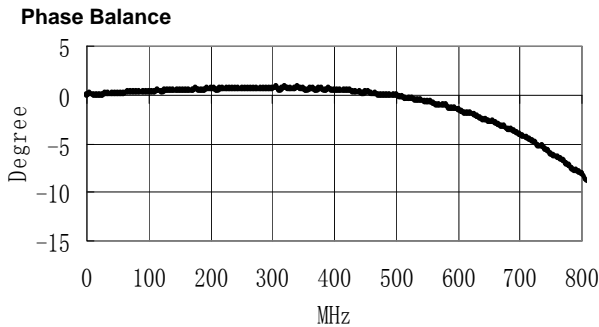
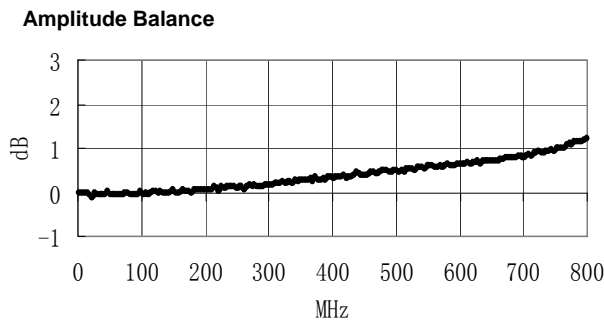
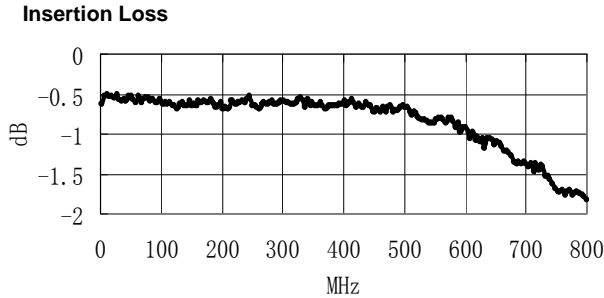
Parameter	Absolute Maximum
RF Power	250 mW
DC Current	240 mA <sup>2</sup>
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +125°C

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.

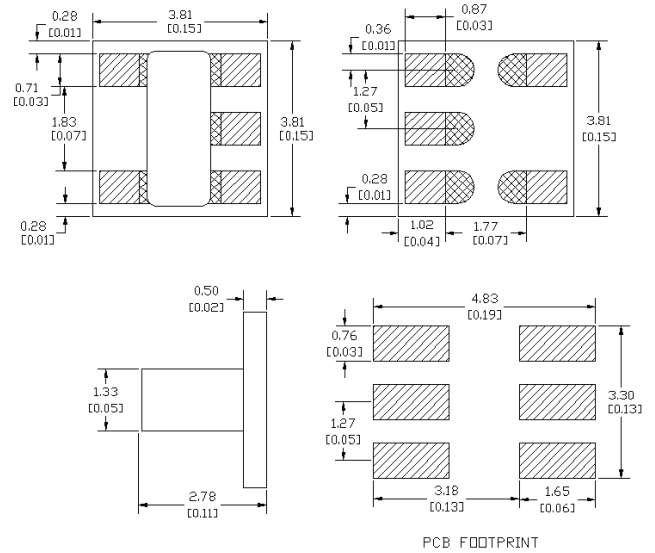
## Schematic



### Typical Performance Curves at +25°C



### SM-195 Outline Drawing



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