

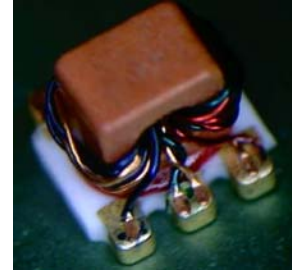
## E-Series RF 1:4 Transmission Line Step-up Transformer 500 — 3000 MHz

M/A-COM Products  
Rev. V4

### Features

- Surface mount
- Wide frequency range
- 1:4 Impedance Ratio
- CT on Secondary
- Lead Free
- RoHS\* version of ETC1.6-4-2-3
- 260°C reflow compatible.
- Available on Tape and Reel, reel quantity 2000

### Product Image



### Description

M/A-COM's MABA-007236-C16423 is a RoHS compliant 1:4 RF transmission line step-up 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. Parts are packaged in tape & reel.

### Ordering Information

Part Number	Package
MABA-007236-C16423	2000 piece reel

### Electrical Specifications: $T_A = 25^\circ\text{C}$ , $Z_0 = 50\Omega$ <sup>1</sup>

Parameter	Test Conditions	Frequency	Units	Min	Typ	Max
RF Frequency	—	500 - 3000	MHz	—	—	—
Insertion Loss	$F_L - f_U$	500 - 750	dB	—	—	3.0
		750 - 1200	dB	—	—	1.0
		1200 - 3000	dB	—	—	3.0

### Pin Configuration

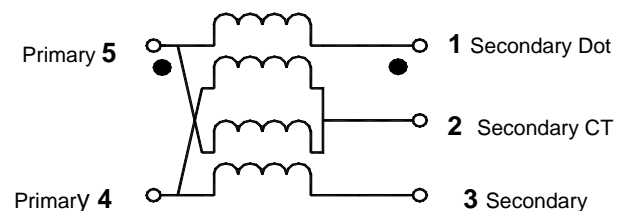
Pin No.	Function
1	Secondary Dot
2	Secondary CT
3	Secondary
4	Primary
5	Primary Dot

### Absolute Maximum Ratings<sup>1,2</sup>

Parameter	Absolute Maximum
DC Power	250 mW
DC Current	30 mA
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



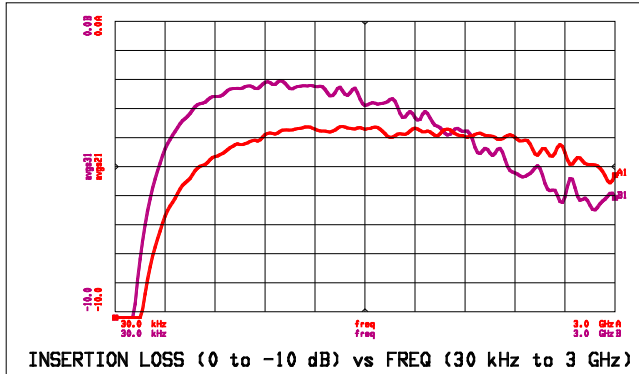
\* Restrictions on Hazardous Substances, European Union Directive 2002/95/EC.

**E-Series RF 1:4 Transmission Line Step-up Transformer**  
**500 — 3000 MHz**

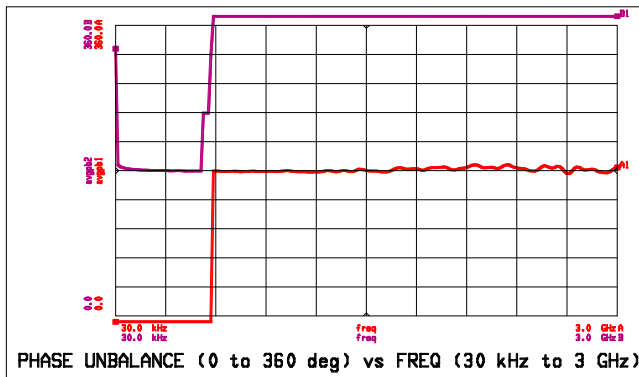
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## Typical Performance Curves

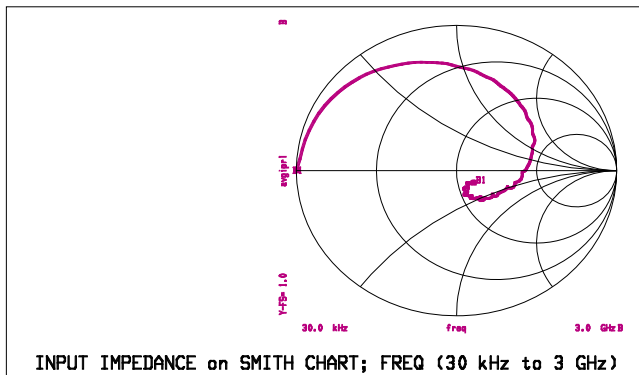
### Insertion Loss



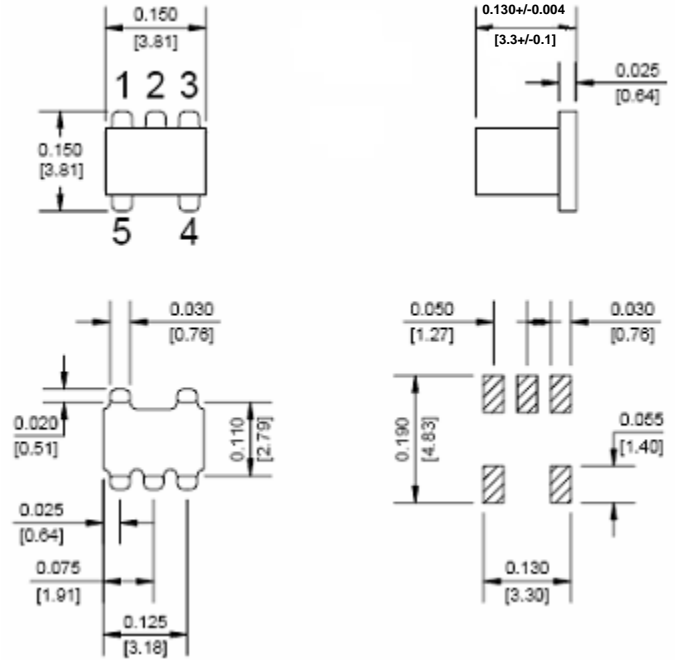
### Phase Unbalance



### Input Impedance

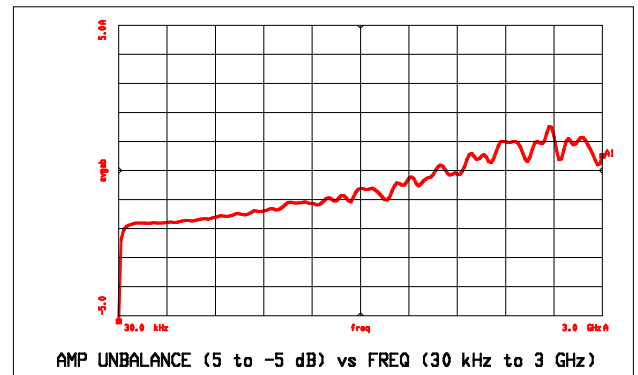


## SM-22 package



**DIMENSIONS ARE IN INCHES TOP AND MILLIMETERS(BOTTOM)**

### Amplitude Unbalance



**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.  
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