

# RoHS Compliant



E-Series RF 1:4 Transmission Line Step-up Transformer 500 — 2500 MHz

MABA-007236-C16423

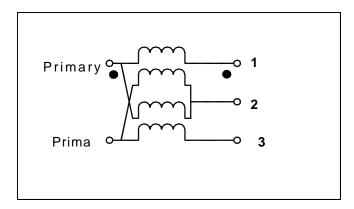
## **Features**

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

## 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.

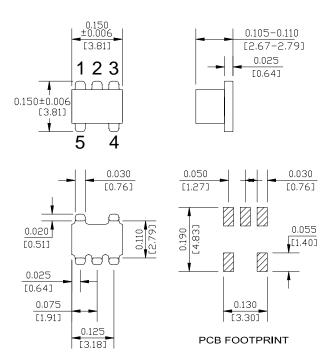
## **Schematic**



# **Pin Configuration**

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

## SM-22 package



# **Ordering Information**

Part Number	Package		
MABA-007236-C16423	2000 piece reel		

Note: Reference Application Note M513 for reel size information.

# Absolute Maximum Ratings 1,2

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.
- M/A-COM does not recommend sustained operation near these survivability limits.

This PRELIMINARY Data Sheet contains information regarding a product M/A-COM has under development. Performance is based on measured results and target specifications. Commitment to produce in volume is not guaranteed.

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

- North America Tel: 800.366.2266 / Fax: 978.366.2266
- Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300
- Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298

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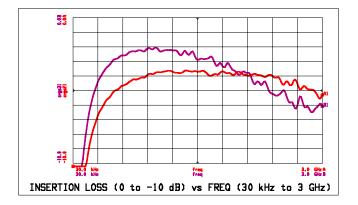
MABA-007236-C16423 V1 P

Electrical Specifications:  $T_A = 25^{\circ}C$ ,  $Z_0 = 50\Omega^{1}$ 

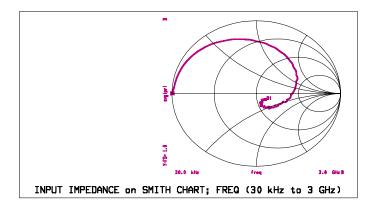
Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
RF Frequency	_	500 - 2500	MHz	_	_	_
Insertion Loss	F <sub>L</sub> —f <sub>U</sub>	500 - 750 750 - 1200 1200 - 2500	dB dB dB		_ _ _	3.0 1.0 3.0

## **Typical Performance Curves**

### Insertion Loss



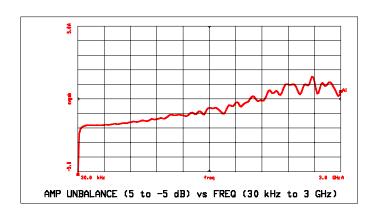
### Input Impedance



#### Phase Unbalance



## Amplitude Unbalance



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