

# E-Series RF 1:4 Transformer 3.0 — 110 MHz

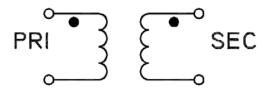
#### Features

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

#### Description

M/A-COM's MABA-008570-ETC414 is a RoHS compliant 1:4 RF transformer in a low cost, surface mount package. Ideally suited for high volume cellular and wireless applications. Parts are packaged in tape & reel.

#### Schematic



#### **Pin Configuration**

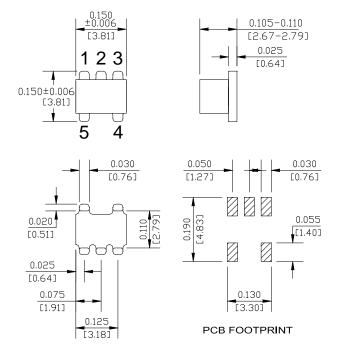
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Pin No.	Function			
3	Secondary			
1	Secondary Dot			
5	Primary Dot			
4	Primary			
2	Not Connected			



#### MABA-008570-ETC414 V1 A

#### SM-22 package



#### **Ordering Information**

Part Number	Package
MABA-008570-ETC414	2000 piece reel

Note: Reference Application Note M513 for reel size information.

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

Parameter	Absolute Maximum		
RF Power	250 mW		
DC Current	30 mA		
Operating Temperature	-20°C to +85°C		
Storage Temperature	-55°C to +100°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.

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

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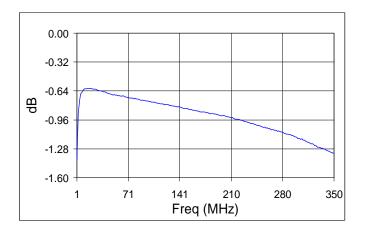
#### MABA-008570-ETC414 V1 A

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

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
RF Frequency	—	3 - 110	MHz	—	_	—
Insertion Loss	F∟—f <sub>U</sub>	3 - 110	dB	—	0.3	1.0

#### **Typical Performance Curves**

#### Insertion Loss



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