

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

**MABA-008570-ETC414  
V1 A**

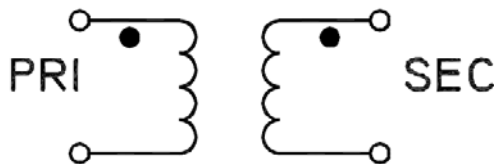
**Features**

- 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.

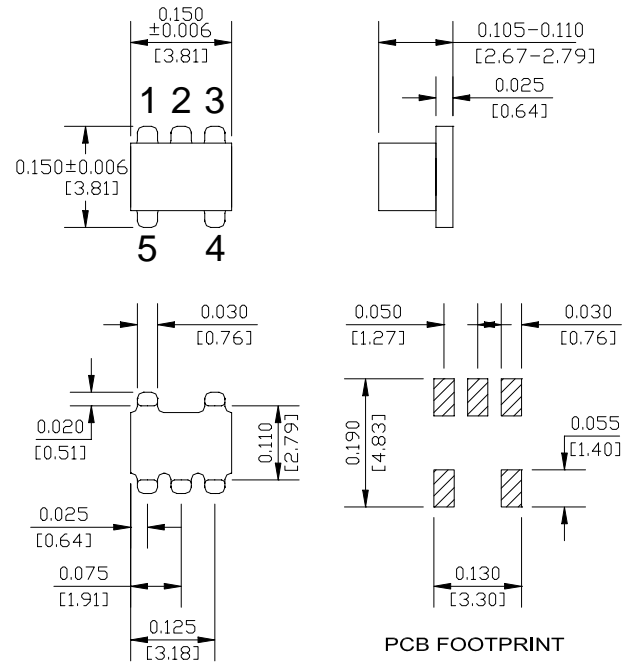
**Schematic**



**Pin Configuration**

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

**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.
2. 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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**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	—	3 - 110	MHz	—	—	—
Insertion Loss	$F_L - f_U$	3 - 110	dB	—	0.3	1.0

## Typical Performance Curves

### Insertion Loss

