

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

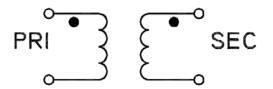
Features

- 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

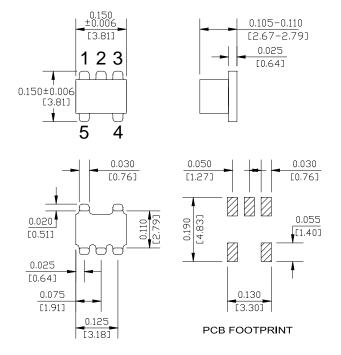
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| Pin No. | Function | | | |
|---------|---------------|--|--|--|
| 3 | Secondary | | | |
| 1 | Secondary Dot | | | |
| 5 | Primary Dot | | | |
| 4 | Primary | | | |
| 2 | Not Connected | | | |



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 ^{1,2}

| 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.

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. **PRELIMINARY**: Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in volume is not guaranteed.

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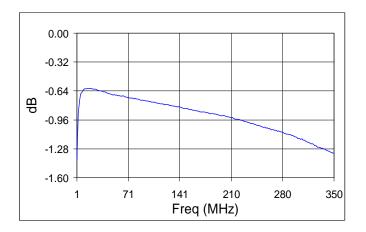
MABA-008570-ETC414 V1 A

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 _U | 3 - 110 | dB | — | 0.3 | 1.0 |

Typical Performance Curves

Insertion Loss



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