

## E-Series RF 1.5:1 Transformer 2 – 1000 MHz

MABA-008752-TC1P57  
V2

### Features

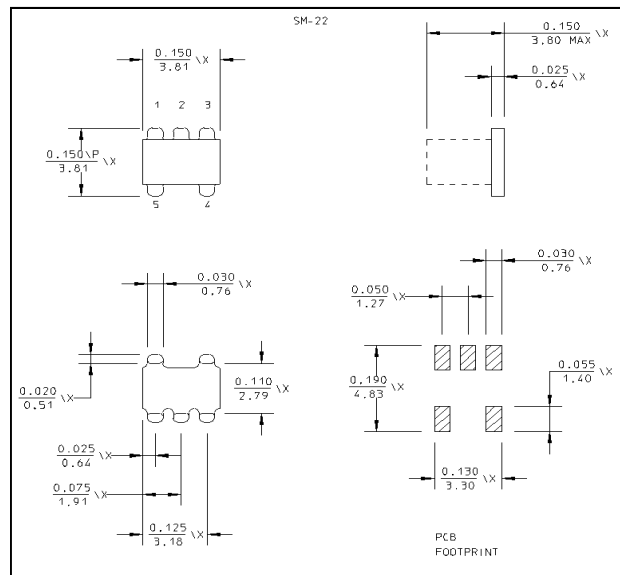
- 1.5:1 Impedance Ratio
- Surface Mount
- Tape and reel packaging available
- 260°C Reflow Compatible
- RoHS\* compliant version of the ETC1.5-7

### Description

M/A-COM's MABA-008752-TC1P57 is a RoHS Compliant 1.5:1 RF transformer in a low cost, surface mount package. Typical applications include single to balanced mode conversion and impedance matching.

The MABA-008752-TC1P57 is available in a SM-22 surface mount package and is designed to be utilized in both RoHS and standard reflow profiles. Parts are packaged in tape & reel.

### SM - 22 Package



### Ordering Information

| Part Number        | Package                         |
|--------------------|---------------------------------|
| MABA-008752-TC1P57 | Tape and Reel (2000 piece Reel) |

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

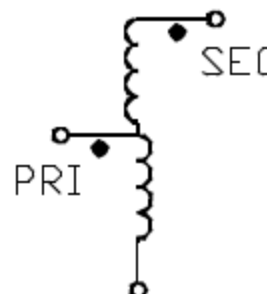
| Parameter             | Absolute Maximum |
|-----------------------|------------------|
| Impedance             | 50 Ohms nominal  |
| Operating Temperature | -40°C to +85°C   |
| Storage Temperature   | -55°C to +125°C  |

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.

### Pin Configuration

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

### Schematic



**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.

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2 – 1000 MHz

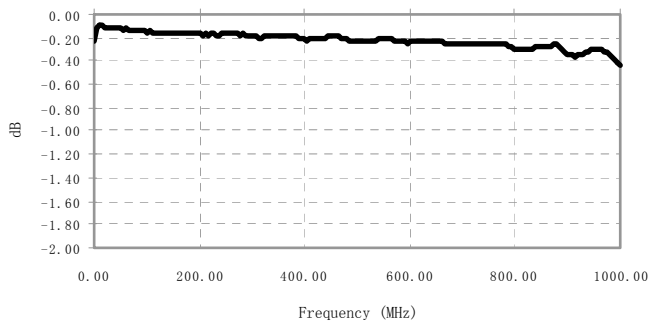
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Electrical Specifications:  $T_A = 25^\circ\text{C}$ ,  $Z_0 = 50\Omega$

| Parameter      | Test Conditions | Frequency | Units | Min | Typ | Max |
|----------------|-----------------|-----------|-------|-----|-----|-----|
| RF Frequency   | —               | 2 - 1000  | MHz   | —   | —   | —   |
| Insertion Loss | —               | 2 - 300   | dB    | —   | 0.4 | 0.5 |
|                |                 | 2 - 600   | dB    | —   | 0.4 | 0.6 |
|                |                 | 2 - 1000  | dB    | —   | 0.5 | 1.0 |

## Typical Performance Curves

**Insertion Loss**



**Return Loss**

