Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

M/A-Com Technology Solutions MABA-007159-000000

For any questions, you can email us directly: sales@integrated-circuit.com

Distributor of M/A-Com Technology Solutions: Excellent Integrated System Limited

Datasheet of MABA-007159-000000 - TRANSFORMER

Contact us: sales@integrated-circuit.com Website: www.integ

MABA-007159-000000



E-Series RF 1:1 Transmission Line Transformer 4.5 - 3000 MHz

Rev. V4

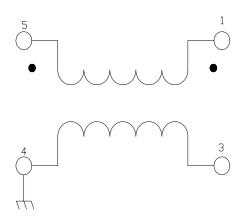
Features

- Surface mount
- Wide frequency range
- 1:1 impedance
- Lead Free
- RoHS* Compliant
- 260°C reflow compatible
- Available on Tape and Reel

Description

M/A-COM Technology Solutions MABA-007159-000000 is a RoHS compliant 1:1 RF transmission line transformer in a low cost, surface mount package. The windings of the MABA-007159-000000 are welded to the package substrate for improved reliability and to eliminate lead content. Ideally suited for high volume cellular and wireless application. Parts are packaged in tape & reel.

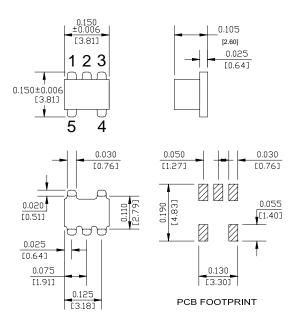
Schematic



Pin Configuration

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

Component Dimension



* Dimensions are inches (millimeters) ±0.015 (0.38) unless otherwise specified.

Recommended 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.
- 2. M/A-COM Technology Solutions does not recommend sustained operation near these survivability limits.

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

- North America Tel: 800.366.2266 Europe Tel: +353.21.244.6400
- India Tel: +91.80.4155721 Visit www.macomtech.com for additional data sheets and product information.
- China Tel: +86.21.2407.1588

M/A-COM Technology Solutions Inc. and its affiliates reserve the right to make changes to the product(s) or information contained herein without notice.

^{*} Restrictions on Hazardous Substances, European Union Directive 2002/95/EC.

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

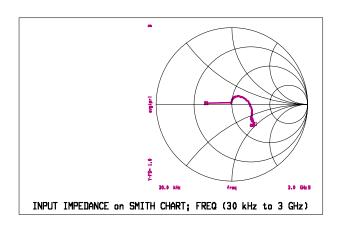
| Parameter | Test Conditions | Test Conditions | Units | Min | Тур | Max |
|---------------------|-----------------|--|----------------|-------------|------|-------------------|
| RF Frequency | - | 4.5 - 3000 | MHz | - | - | - |
| Insertion Loss | - | 4.5 - 1000 1000 - 2000 2000 - 3000 | dB dB dB | - - - | 0.32 | 1.0 2.0 3.5 |
| Amplitude Unbalance | - | 4.5 - 1000 | dB | - | - | 1.0 |
| Phase Unbalance | - | 4.5 - 1000 | Degrees | - | - | 20 |

Typical Performance Curves

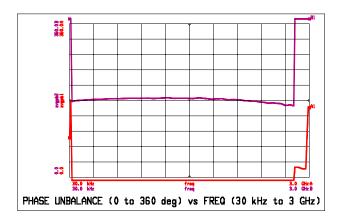
Insertion Loss



Input Impedance



Phase Unbalance



Amplitude Unbalance



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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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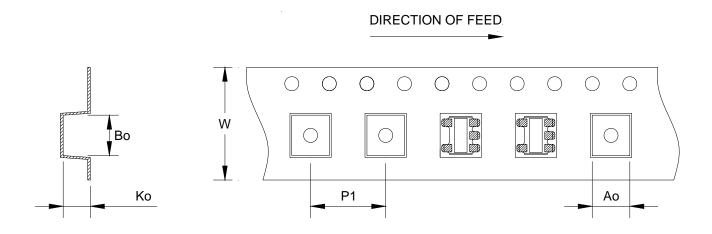
MABA-007159-000000



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Tape & Reel Information



| Item | Dimension |
|------|------------------|
| Ao | 4.00mm +/-0.1mm |
| Во | 4.30mm +/-0.1mm |
| Ko | 2.90mm +/-0.1mm |
| W | 12.00mm +/-0.3mm |
| P1 | 8.00mm +/-0.1mm |

Ordering Information

| Part Number | Package |
|--------------------|-----------------|
| MABA-007159-000000 | 2000 piece reel |

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