

## E-Series Surface Mount Power Divider

### 1-2700 MHz

Rev. V2

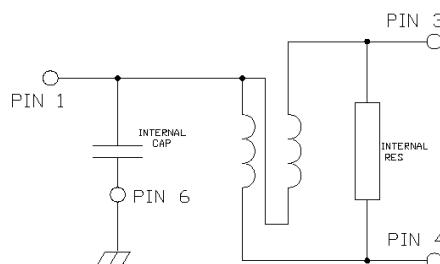
#### Features

- 2 Way 50Ω
- Surface Mount
- 0 Degree
- Broad Band performance

#### Description

MAPD-008957-CT0012 is a RoHS compliant 2 Way 0° Power Divider in a low cost, surface mount package.

#### Schematic



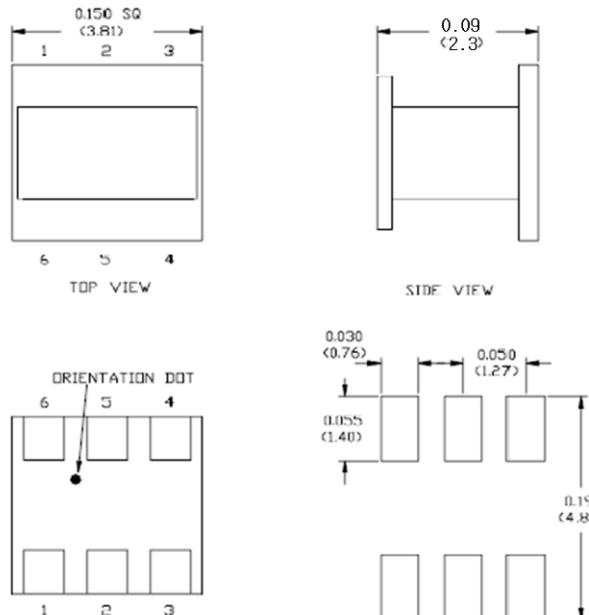
#### Product Image



#### Pin Configuration

Pin No.	Function
1	Input
2	Not Used (GND)
3	Output Port1
4	Output Port2
5	Not Used (GND)
6	Ground

#### Component Dimensions



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

**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.

• **North America** Tel: 800.366.2266    • **Europe** Tel: +353.21.244.6400  
 • **India** Tel: +91.80.43537383    • **China** Tel: +86.21.2407.1588

Visit [www.macomtech.com](http://www.macomtech.com) for additional data sheets and product information.

*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.*

## E-Series Surface Mount Power Divider

### 1-2700 MHz

Rev. V2

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

Parameter	Frequency (MHz)	Units	Min	Typ	Max
Insertion Loss (Above 3dB)	1 - 1800 1800-2700	dB dB	— —	0.8 1.3	1.3 2.0
Isolation	1 - 2000 2000-2400 2400-2700	dB dB dB	9 13 10	10 20 11	20 30 —
Amplitude Balance	1 - 2500 2500-2700	dB dB	— —	0.5 1.0	1.0 1.5
Phase Balance	1 - 2700	deg	—	2	8
Input Return Loss	1 - 1200 1200-2400 2400-2700	dB dB dB	9 12 6	10 15 10	— 25 12
Output Return Loss	1 - 1800 1800-2700	dB dB	20 16	25 23	32 32

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

Parameter	Absolute Maximum
RF Power	250 mW
Internal Load Dissipation	50 mA
Operating Temperature	-40°C to +80°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.

**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.

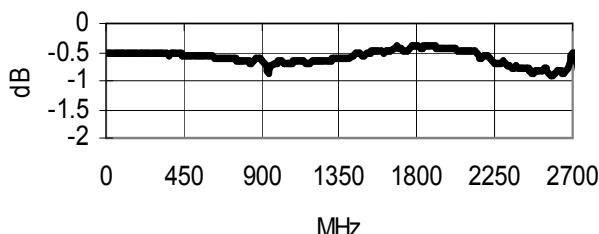
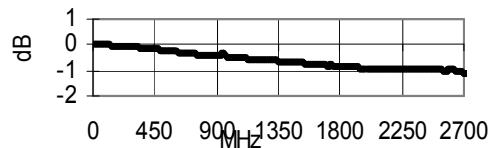
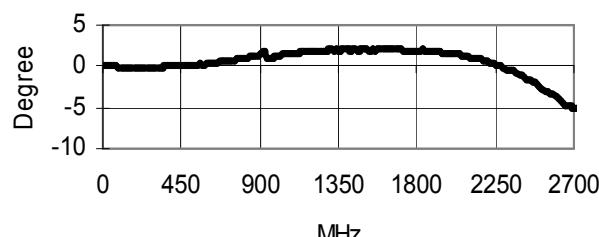
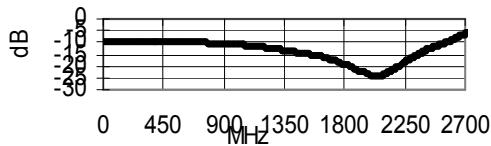
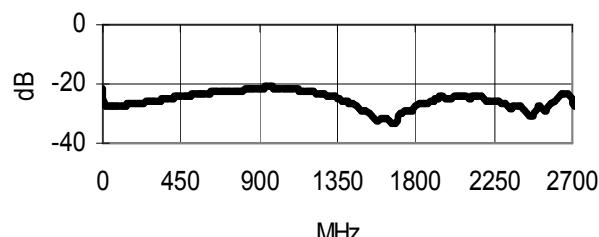
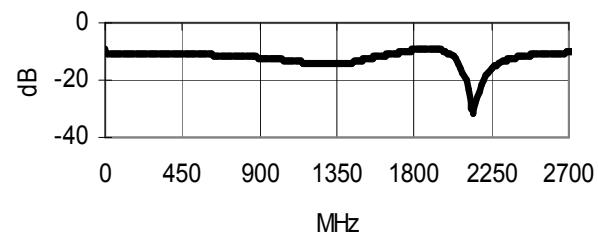
• **North America** Tel: 800.366.2266    • **Europe** Tel: +353.21.244.6400  
• **India** Tel: +91.80.43537383    • **China** Tel: +86.21.2407.1588

Visit [www.macomtech.com](http://www.macomtech.com) for additional data sheets and product information.

*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.*

**E-Series Surface Mount Power Divider**  
**1-2700 MHz**

Rev. V2

**Typical Performance Curves**
**Insertion Loss**

**Amplitude Unbalance**

**Phase Unbalance**

**Input Return Loss**

**Output Return Loss**

**Isolation**


**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.

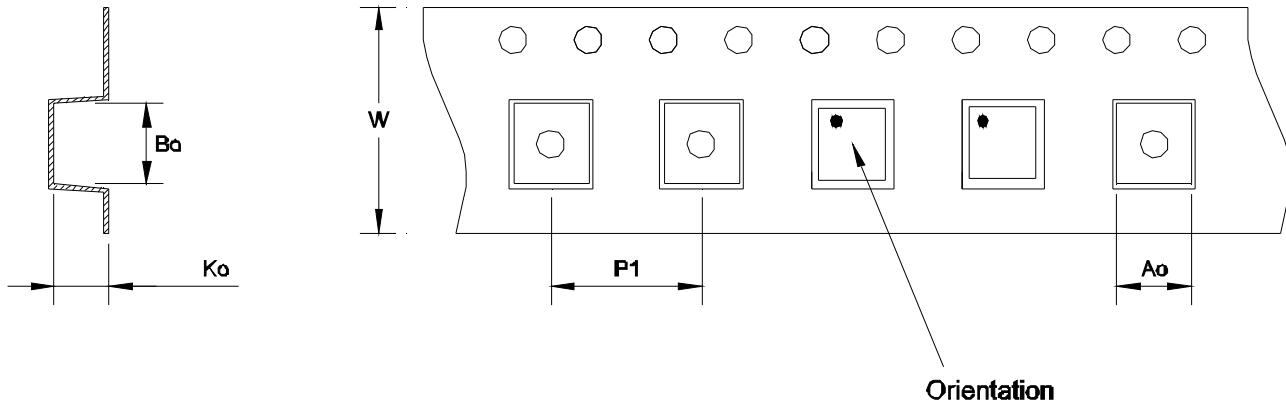
- **North America** Tel: 800.366.2266
- **Europe** Tel: +353.21.244.6400
- **India** Tel: +91.80.43537383
- **China** Tel: +86.21.2407.1588

Visit [www.macomtech.com](http://www.macomtech.com) for additional data sheets and product information.

*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.*

**E-Series Surface Mount Power Divider**  
**1-2700 MHz**

Rev. V2

**Tape & Reel Information****DIRECTION OF FEED**

Item	Dimension
Ao	4.0mm +/-0.1mm
Bo	4.1mm +/-0.1mm
Ko	2.7mm +/-0.1mm
W	12.00mm +/-0.3mm
P1	8.00mm +/-0.1mm

**Ordering Information**

Part Number	Package
MAPD-008957-CT0012	Tape and Reel (2000 piece Reel)

**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.

- **North America** Tel: 800.366.2266
- **Europe** Tel: +353.21.244.6400
- **India** Tel: +91.80.43537383
- **China** Tel: +86.21.2407.1588

Visit [www.macomtech.com](http://www.macomtech.com) for additional data sheets and product information.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[MACOM:](#)

[MAPD-008957-CT0012](#)