# MAPD-009850-HW1268



# E-Series 2-Way 90° Power Divider 112-168 MHz

M/A-COM Products Rev. V1

#### **Features**

- 2-way
- 90 Degree
- Surface Mount
- Tape and reel packaging available
- 260°C Reflow Compatible
- RoHS\* compliant

### **Description**

M/A-COM's MAPD-009850-HW1268 is a RoHS Compliant 2-way 90° power divider in a low cost, surface mount package. Ideally suited for high volume cellular, wireless applications.

The MAPD-009850-HW1268 is available in a SM-89 surface mount package and is designed to be utilized in both RoHS and standard reflow profiles. Parts are packaged in tape & reel.

# Product Image



### **Ordering Information**

Part Number	Package
MAPD-009850-HW1268	Tape and Reel (900 piece Reel)

## Electrical Specifications: $T_A = 25$ °C, $Z_0 = 50\Omega$

Frequency Range	Test Conditions	Units	Min.	Тур.	Max.
Insertion Loss	112 - 168 MHz	dB	_	0.5	1.2
Isolation	112 - 168 MHz	dB	18	23	_
Amplitude Unbalance	112 - 168 MHz	dB	I	1.0	2.0
Phase Unbalance	112 - 168 MHz	0	_	1°	2°
Input Return Loss	112 - 168 MHz	dB	20	24	_

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

Parameter	Absolute Maximum	
Impedance	50 Ohms nominal	
RF Power	1 Watt	
Internal Load Dissipation	0.125 Watt	
Operating Temperature	-40°C to +85°C	
Storage Temperature	-55°C to +125°C	

## **Pin Configuration**

Pin No.	Function		
Input	1		
Port 1	4		
Port 2	6		
External 50 Ohms	3		
Not Connected	2,5		

- 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 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 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.

• Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300

Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298
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<sup>\*</sup> Restrictions on Hazardous Substances, European Union Directive 2002/95/EC.

North America Tel: 800.366.2266 / Fax: 978.366.2266

# MAPD-009850-HW1268

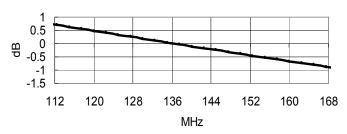


# E-Series 2-Way 90° Power Divider 112-168 MHz

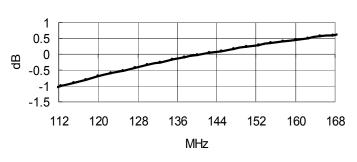
M/A-COM Products Rev. V1

### **Typical Performance Curves**

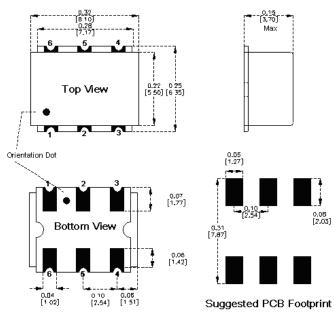
### **Insertion Loss Port 1**



### **Insertion Loss port 2**

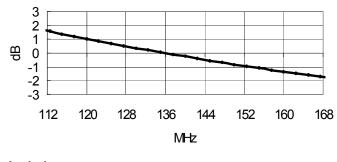


### SM - 89 Package

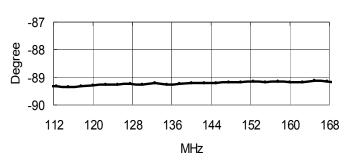


\* Dimensions are inches (millimeters) ± 0.015 (0.38) unless otherwise specified.

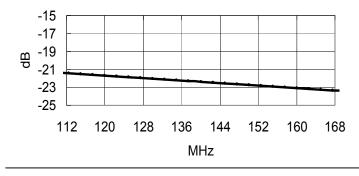
### Amplitude Unbalance



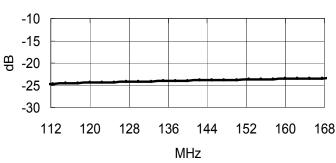
#### Phase Unbalance



### Isolation



### Input Return Loss



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