



MAPD-008762-ES0001

E-Series 2-way 90° Power Divider 120 – 160 MHz

#### **Features**

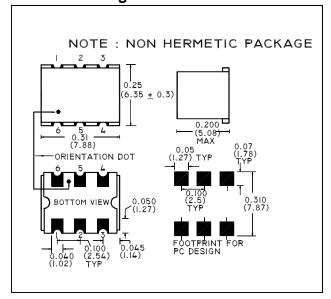
- 2-wav
- 90 Degree
- Surface Mount
- · Tape and reel packaging available
- 260°C Reflow Compatible
- RoHS\* compliant version of the MAPDES0001

## **Description**

M/A-COM's MAPD-008762-ES0001 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-008762-ES0001 is available in a SM-87 surface mount package and is designed to be utilized in both RoHS and standard reflow profiles. Parts are packaged in tape & reel.

## SM - 87 Package



## **Ordering Information**

Part Number	Package			
MAPD-008762-ES0001	Tape and Reel (900 piece Reel)			

## Absolute Maximum Ratings 1,2

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			

- 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.

typical. Mechanical outline has been fixed. Engineering samples

Commitment to produce in volume is not qua

## **Pin Configuration**

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

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.

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

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

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<sup>\*</sup> Restrictions on Hazardous Substances, European Union Directive 2002/95/EC.

# RoHS Compliant



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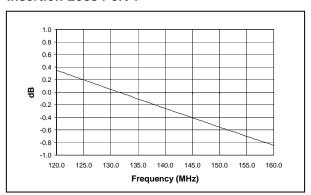
MAPD-008762-ES0001

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

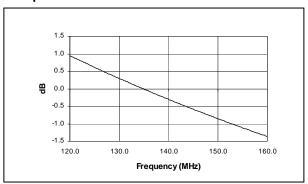
Frequency Range 40 - 1000 MHz	Test Conditions	Nominal	Units	Min.	Тур.	Max.
Insertion Loss (Above 3dB)	120 - 160 MHz	_	dB	_	0.5	1.0
Isolation	120 - 160 MHz	_	dB	20	25	_
Amplitude Unbalance	120 - 160 MHz	_	dB	_	1.0	1.6
Phase Unbalance	120 - 160 MHz	_	0	_	1°	3°

## **Typical Performance Curves**

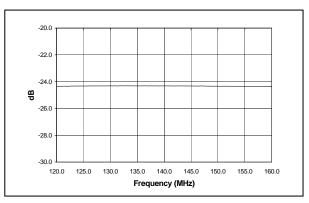
#### **Insertion Loss Port 1**



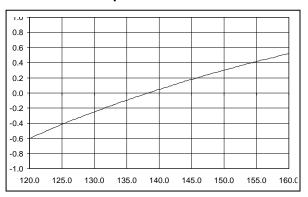
#### **Amplitude Unbalance**



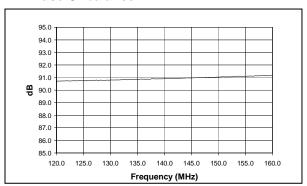
#### Isolation



### **Insertion Loss port 2**



#### **Phase Unbalance**



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