

Electronics

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



- 2-way
- 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.

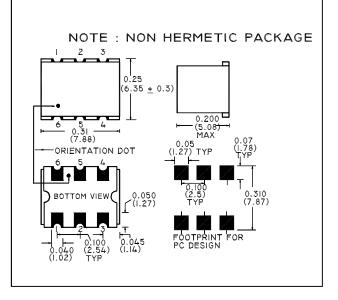
The MAPD-008762-ES0001 is available in a SM-87 surface mount package and is designed to be utilized in both RoHS and standard reflow profiles. Parts are packaged in tape & reel.

RoHS Compliant



MAPD-008762-ES0001 V1

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			

1. 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.

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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Pin Configuration

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

• North America Tel: 800.366.2266 / Fax: 978.366.2266

- Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300
- Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298

Visit www.macom.com for additional data sheets and product information.



RoHS Compliant



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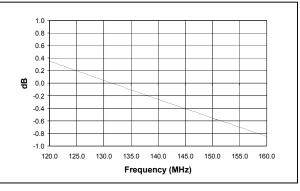
MAPD-008762-ES0001 V1

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

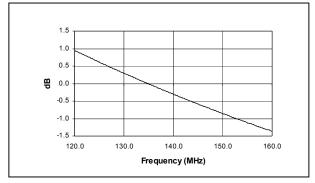
Frequency Range 40 - 1000 MHz	Test Conditions	Nominal	Units	Min.	Тур.	Max.
Insertion Loss (Above 3dB)	120 - 160 MHz	—	dB	—	0.5	1.0
Isolation	120 - 160 MHz	—	dB	20	25	—
Amplitude Unbalance	120 - 160 MHz	—	dB	—	1.0	1.6
Phase Unbalance	120 - 160 MHz	—	0	_	1°	3°

Typical Performance Curves

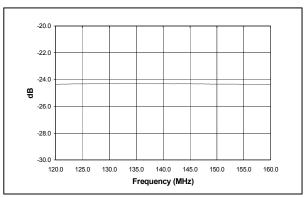
Insertion Loss Port 1



Amplitude Unbalance



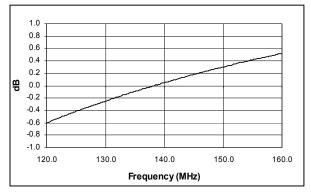
Isolation



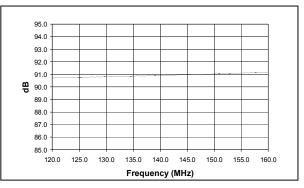
2

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Insertion Loss port 2



Phase Unbalance



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