

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

**MAPD-008762-ES0001  
V1**

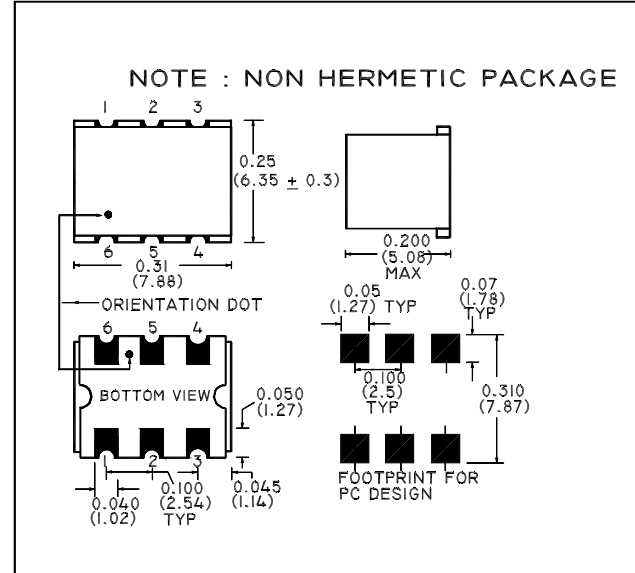
**Features**

- 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.

**SM - 87 Package**



**Ordering Information**

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

**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

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.

**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.

**Pin Configuration**

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

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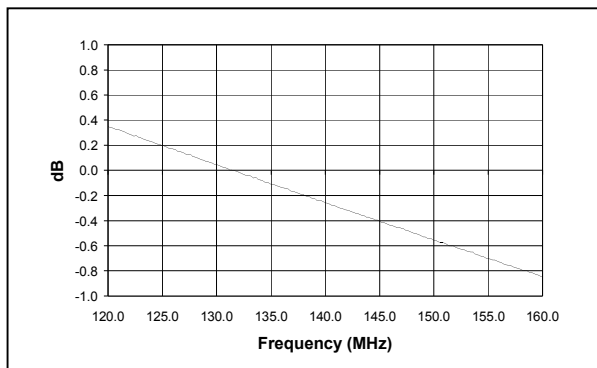
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**Electrical Specifications:  $T_A = 25^\circ\text{C}$ ,  $Z_0 = 50\Omega$**

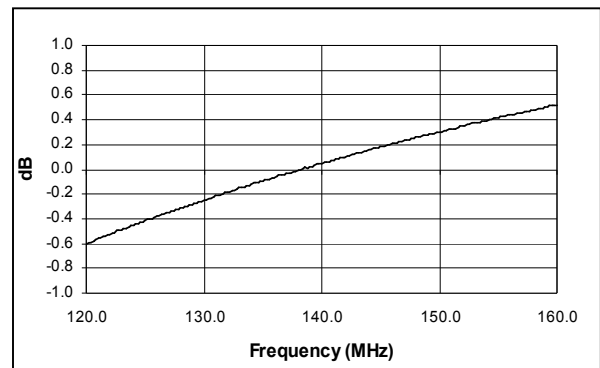
Frequency Range 40 - 1000 MHz	Test Conditions	Nominal	Units	Min.	Typ.	Max.
Insertion Loss (Above 3dB)	120 - 160 MHz	—	dB	—	0.5	1.0
Isolation	120 - 160 MHz	—	dB	20	25	—
Amplitude Unbalance	120 - 160 MHz	—	dB	—	1.0	1.6
Phase Unbalance	120 - 160 MHz	—	°	—	1°	3°

**Typical Performance Curves**

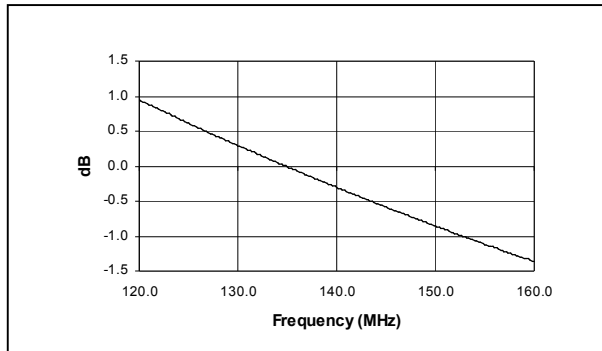
**Insertion Loss Port 1**



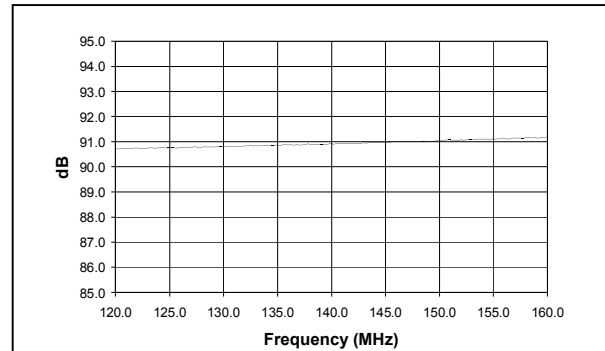
**Insertion Loss port 2**



**Amplitude Unbalance**



**Phase Unbalance**



**Isolation**

