

E-Series 2-Way 90° Power Divider 50-70 MHz

Rev. V1

Features

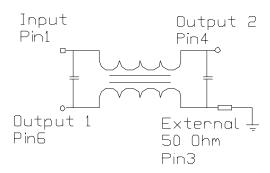
- 2-way
- 90 Degree
- Surface Mount
- Tape and reel packaging available
- 260°C Reflow Compatible
- RoHS* compliant

Description

M/A-COM's MAPD-010320-5070HR 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-010320-5070HR is designed to be utilized in both RoHS and standard reflow profiles. Parts are packaged in tape & reel.

Schematic



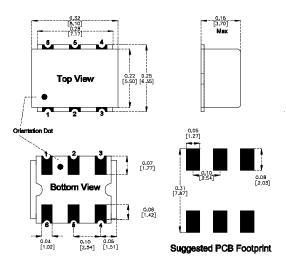
Product Image



Pin Configuration

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

SM-89



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

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- 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 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.

^{*} Restrictions on Hazardous Substances, European Union Directive 2002/95/EC.



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

Parameter	Frequency	Units	Min.	Тур.	Max.
Insertion Loss (Average above 3dB)	50 - 70 MHz 60 - 65 MHz	dB		0.3 0.1	0.5 0.3
Isolation	50 - 70 MHz 60 - 65 MHz	dB dB	30 30	 32	_
Amplitude Unbalance	50 - 70 MHz 60 - 65 MHz	dB dB		1.0 0.1	2.0 0.5
Phase Unbalance	50 - 70 MHz	0	_	0.3°	0.5°
Input Return Loss	50 - 70 MHz	dB	24	27	

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.

^{2.} M/A-COM does not recommend sustained operation near these survivability limits.

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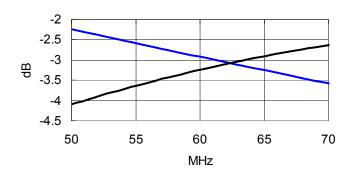


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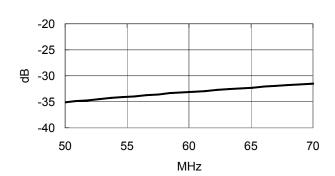
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Typical Performance Curves

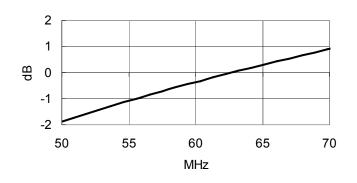
Insertion Loss



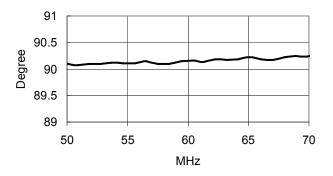
Isolation



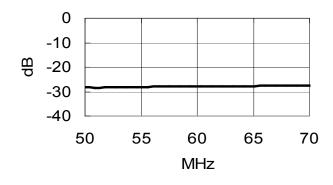
Amplitude Unbalance



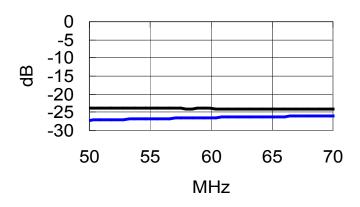
Phase Unbalance



Input Return Loss



Output Return Loss



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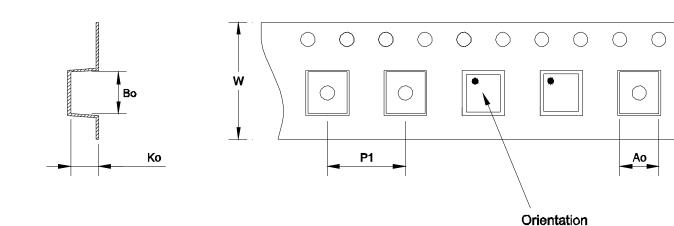


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Tape Specification

DIRECTION OF FEED



Item	Dimension
Ao	7.01mm +/-0.1mm
Во	8.61mm +/-0.1mm
Ko	5.23mm +/-0.1mm
W	16.00mm +/-0.3mm
P1	12.00mm +/-0.1mm

Ordering Information

Part Number	Package
MABA-010320-5070HR	Tape and Reel (900 piece Reel)

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