

2 Way 0° Power Divider 5 to 1000 MHz

Rev. V2

Features

- Surface Mount
- 2 way 0 degree
- 260°C Reflow Compatible
- RoHS* Compliant, lead free
- Available on Tape and Reel.

Description

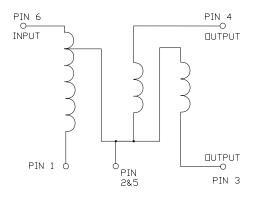
M/A-COM Technology Solutions MAPD-010274-C209C0 is a 2 way 0 degree RF power divider in a low cost, surface mount package. Ideally suited for high volume CATV/VSAT applications.



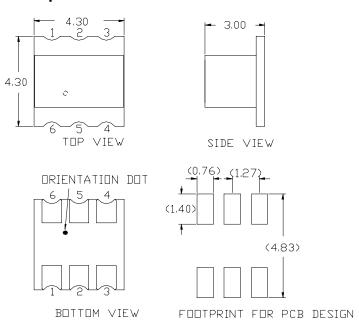
Pin Configuration

Pin No.	Function		
1	Ground		
2	External 0.5pF Capacitor		
3	Output Port 2		
4	Output Port 1		
5	External 0.5pF Capacitor		
6	Input		

Schematic



Component dimensions:



Dimensions in mm Tolerance: $.xx \pm .1$, $.xxx \pm .010$, unless otherwise stated

- 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.

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



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Electrical Specifications: $T_A = 25$ °C, 0dBm, $Z_0 = 75\Omega$, $P_{in} = 0$ dBm

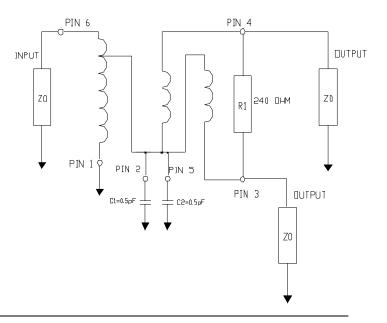
Parameter	Test Conditions	Units	Min	Тур	Max
Insertion Loss (Above 3dB)	5 - 50 MHz	dB	-	0.15	1.4
	50 - 500 MHz	dB	-	0.25	0.9
	500 - 1000 MHz	dB	-	0.60	1.3
Amplitude Balance	5 - 50 MHz	dB	-	0.18	±1.2
	50 - 500 MHz	dB	-	0.20	±0.6
	500 - 1000 MHz	dB	-	0.30	±0.5
Phase Balance	5 - 50 MHz	0	-	0.01	±6
	50 - 500 MHz	0	-	0.25	±4
	500 - 1000 MHz	0	-	0.40	±3
Input Return Loss	5 - 50 MHz	dB	15	40	-
	50 - 500 MHz	dB	15	38	-
	500 - 1000 MHz	dB	15	30	-
Output Return Loss	5 - 50 MHz	dB	15	29	-
	50 - 500 MHz	dB	15	33	-
	500 - 1000 MHz	dB	15	20	-
Isolation (between outputs)	5 - 50 MHz	dB	14	27	-
	50 - 500MHz	dB	19	26	-
	500 - 1000 MHz	dB	16	19	-

Recommended Maximum Ratings

Parameter	Value
Input power	1W
Internal Load Dissipation	0.125W
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +100°C

• Full temperature plots are available on request

Application Circuit



ment to produce in volume is not guaranteed.

PRELIMINARY: Data Sheets contain information regarding a product MA-COM Technical Solutions 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. Commit- M/A-COM Technology Solutions Inc. and its affiliates reserve the right to make

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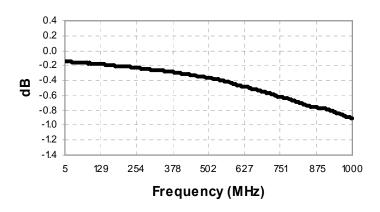
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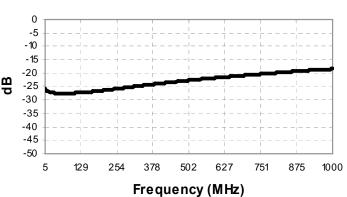
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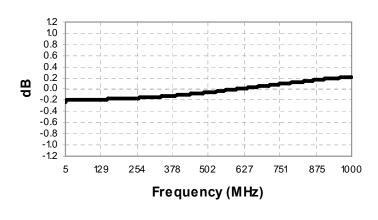
Insertion Loss:



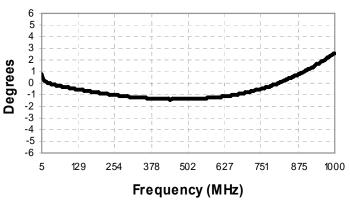
Isolation:



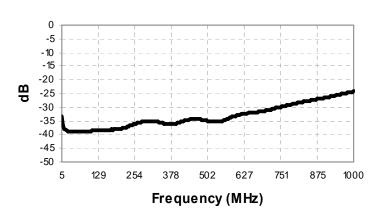
Amplitude Balance:



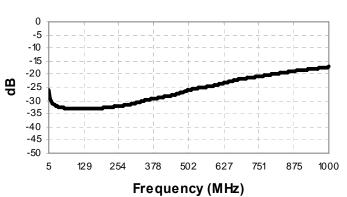
Phase Balance:



Return Loss: Input



Return Loss: Output



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ADVANCED: Data Sheets contain information regarding a product MA-COM Technical Solutions is considering for development. Performance is based on target specifications, simulated results, and/ or prototype measurements. Commitment to develop is not guaranteed.

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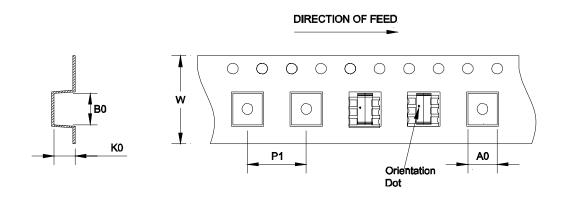
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Tape & Reel Information



Item	Dimension		
Ao	4.55mm +/- 0.1mm		
Во	4.75mm +/- 0.1mm		
Ko	3.10mm +/- 0.1mm		
W	12.00mm +/- 0.3mm		
P1	8.00mm +/- 0.1mm		

Ordering Information

Part number	Description
MAPD-010274-C209C0	2000 piece reel
MAPD-010274-C209TB	Customer Test Board

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