imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





Rev. V3

2-Way 0° Power Divider 5 to 1000 MHz

Features

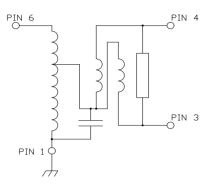
- Surface Mount, hermetically sealed
- 2 Way, 0 Degree
- 260°C Reflow Compatible
- RoHS* Compliant
- RoHS version of ESSMJ-2-12-75TR
- 75 Ohm
- Available on Tape and Reel

Description

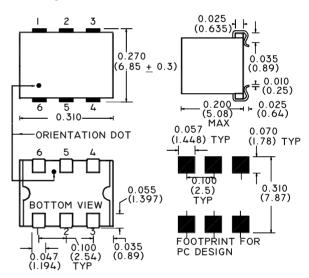
M/A-COM's MAPD-008108-C202C0 is a 2 Way 0° Power Divider in a low cost, surface mount package. Ideally suited for high volume CATV/Broadband applications.



Schematic



Case style: SM-44



Dimensions in inches [mm] Tolerance: .xx ± .02, .xxx ± .010

Ordering information

Part Number	Description	
MAPD-008108-C202C0	900 per reel	
MAPD-008108-C202TB	Customer Test Board	

Note: Reference Application Note M513 for reel size information.

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

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Pin configuration

Pin No.	Function	
1	Ground	
2	Not Connected	
3	Output Port 2	
4	Output Port 1	
5	Not Connected	
6	Input	

1



2-Way 0° Power Divider 5 to 1000 MHz

Rev. V3

Electrical Specifications: $T_A = 25^{\circ}C$, $Z_0 = 75\Omega$, $P_{IN} = 0dBm$

Parameter	Frequency	Units	Minimum	Typical	Maximum
Insertion Loss	5 - 500 MHz 500 - 1000 MHz	dB dB	—	0.4 0.5	0.6 1.2
Isolation	5 - 600 MHz 600 - 1000 MHz	dB dB	20 17.5	35 30	—
Amplitude Unbalance	5 - 600 MHz 600 - 1000 MHz	dB dB			0.2 0.5
Phase Unbalance	5 - 100 MHz 100 - 500 MHz 500 –1000MHz	0 0 0			1.5 3.5 4.0
Output Return Loss	5 - 40 MHz 40 - 1000 MHz	dB dB	12 20	20 25	—
Input Return Loss	5 - 40 MHz 40 - 500 MHz 500 - 860 MHz 860-1000 MHz	dB dB dB dB	13.5 20 17 14	20 24 21 19	
Insertion Loss Flatness	5 - 1000 MHz	dB	—	—	0.9

Absolute maximum ratings ^{1,2}

Parameter	Absolute Maximum		
RF Power	1 Watt		
Internal Load Dissipation	0.125 Watt		
Pin Temp (10 sec.)	260°C		
Storage Temperature	-55°C to +100°C		
Operating Temperature	-40°C to +85°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.

²

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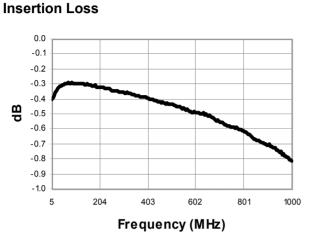
MAPD-008108-C202C0



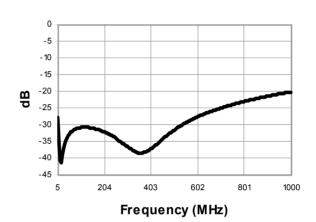
Rev. V3

2-Way 0° Power Divider 5 to 1000 MHz

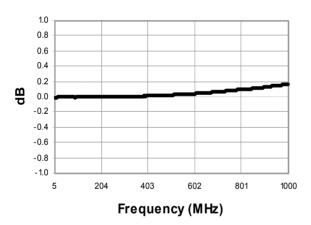
Typical Performance Curves: $T_A = 25^{\circ}C$, $Z_0 = 75\Omega$, $P_{IN} = 0dBm$



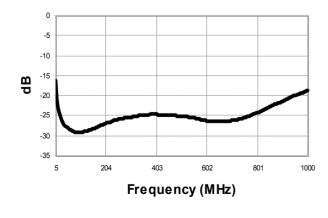
Isolation



Amplitude Balance







Frequency (MHz)

204

Phase Balance

1.0

0.8 0.6

0.4

0.2

0.0

-0.2

-0.4

-0.6

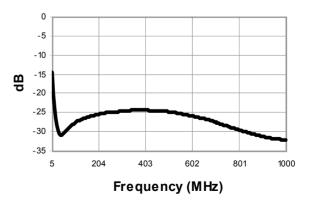
-0.8

-1.0

5

Degree

Return Loss: Output



403

602

801

1000

3

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MAPD-008108-C202C0

MACOM

2-Way 0° Power Divider 5 to 1000 MHz

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Rev. V3

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