MAPD-008108-C202C0



2-Way 0° Power Divider M/A-COM Products 5 to 1000 MHz Released, Rev. V2

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.

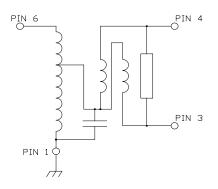


Pin configuration

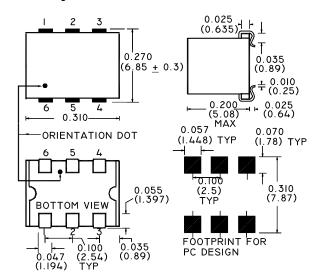
Pin No.	Function		
1	Ground		
2	Not Connected		
3	Output Port 2		
4	Output Port 1		
5	Not Connected		
6	Input		

Note: Reference Application Note $\boldsymbol{M513}$ for reel size information.

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		

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

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

 PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology 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. Commitment to produce in volume is not guaranteed.
- North America Tel: 800.366.2266 Europe Tel: +353.21.244.6400
- India Tel: +91.80.4155721
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 Visit www.macomtech.com for additional data sheets and product information.

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

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		

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^{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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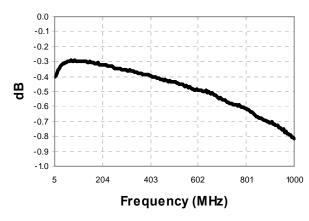
MAPD-008108-C202C0



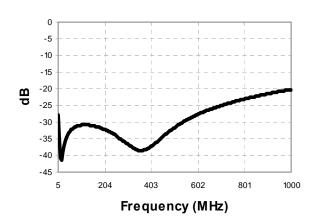
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Typical Performance Curves: $T_A = 25^{\circ}C$, $Z_0 = 75\Omega$, $P_{IN} = 0$ dBm

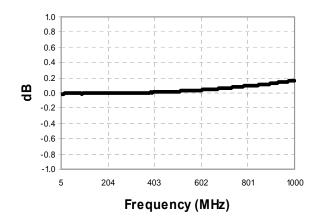
Insertion Loss



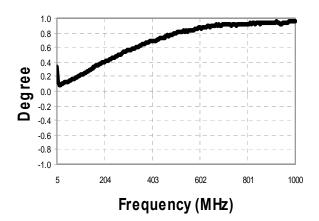
Isolation



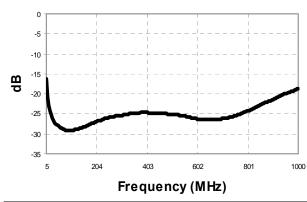
Amplitude Balance



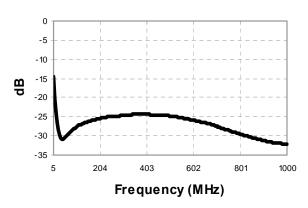
Phase Balance



Return Loss: Input



Return Loss: Output



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