

# MAPD-009492-C2W180



Power divider, 2 Way 180 degree Splitter (also a 1:2 flux coupled balun)  
5 to 1200 MHz

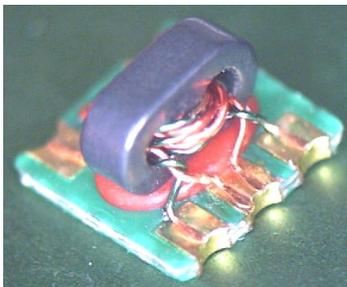
M/A-COM Products  
Rev. V2

## Features

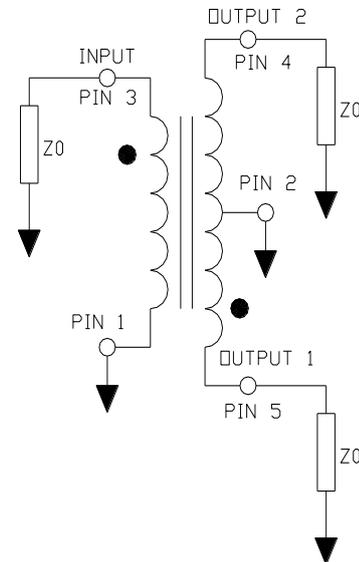
- Surface mount
- 180° phase between outputs
- RoHS\* compliant
- Available on tape and reel.

## Description

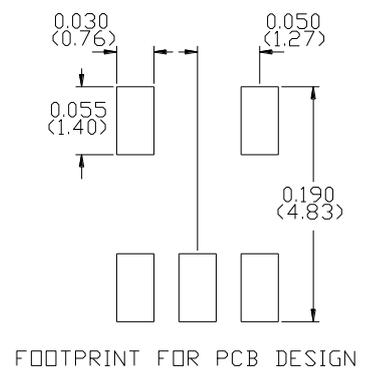
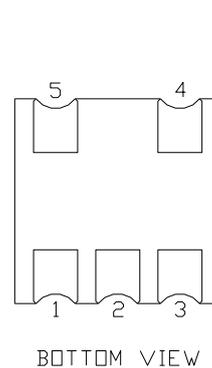
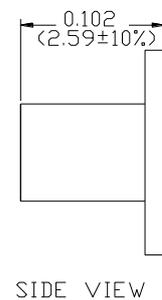
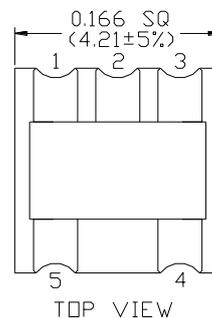
M/A Com's MAPD-009492-C2W180 is a 2 way 180° power divider in a low cost, surface mount package. Ideally suited for high volume broadband CATV applications.



## Schematic



## Case style: SM-164



## Pin configuration

Pin no.	Function
1	Ground
2	Ground
3	Input
4	Output 2
5	Output 1

## Ordering information

Part number	Description
MAPD-009492-C2W180	Reel Quantity 2000
MAPD-009492-C2W1TB	Customer Test Board

Note: Reference Application Note **M513** for reel size information.

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

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

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

Parameter	Test Conditions	Units	Min	Typ	Max
Insertion Loss 1 Pin 5-3	5 - 200 MHz	dB	-	0.7	1.0
	200 - 870 MHz	dB	-	1.3	2.5
	870 - 1200 MHz	dB	-	2.7	4.5
Insertion Loss 2 Pin 4-3	5 - 50 MHz	dB	-	0.6	1.2
	50 - 870 MHz	dB	-	0.6	0.9
	870 - 1000 MHz	dB	-	0.0	0.5
	1000 - 1200 MHz	dB	-	-0.3	0.2
Amplitude Balance (Nominal 0dB)	5 - 500 MHz	dB	-	0.2	$\pm 1.0$
	500 - 870 MHz	dB	-	1.3	$\pm 2.5$
	870 - 1000 MHz	dB	-	2.4	$\pm 3.5$
	1000 - 1200MHz	dB	-	3.4	$\pm 5.0$
Phase Balance (Nominal 180°)	5 - 200 MHz	°	-	0.1	$\pm 3.0$
	200 - 870 MHz	°	-	1.3	$\pm 9.0$
	870 - 1000 MHz	°	-	4.0	$\pm 13.0$
	1000 - 1200 MHz	°	-	11.0	$\pm 20.0$
Input Return Loss	5 - 870 MHz	dB	18	24	-
	870 - 1000 MHz	dB	17	22	-
	1000 - 1200 MHz	dB	12	18	-

## Absolute maximum ratings

Parameter	Absolute maximum
RF power	50mW
Peak IF current	40mA
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C

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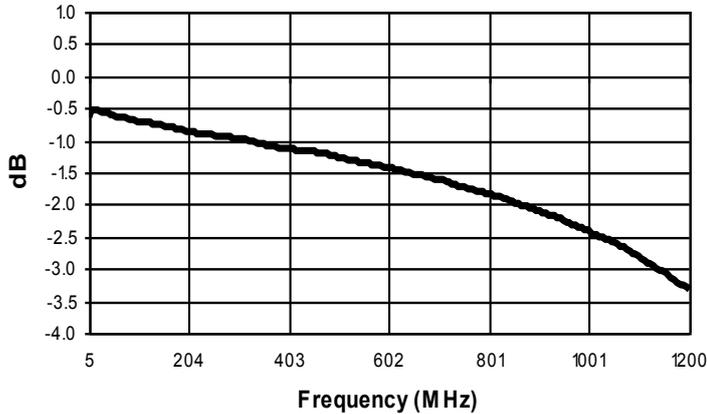


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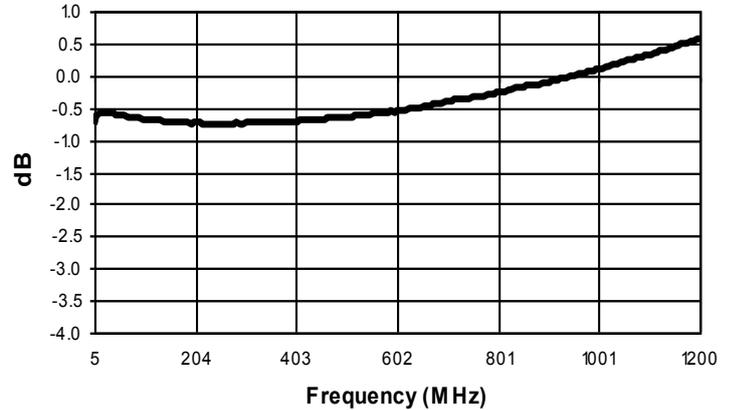
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Typical Performance Curves:  $T_A = 25^\circ\text{C}$ ,  $Z_0 = 75\Omega$

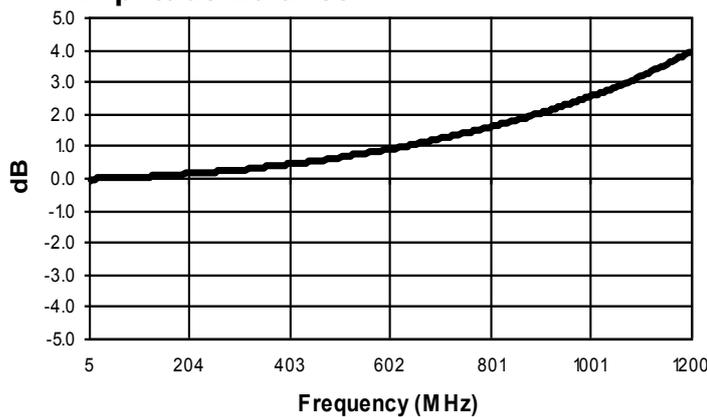
Insertion Loss 1: Pin 5-3



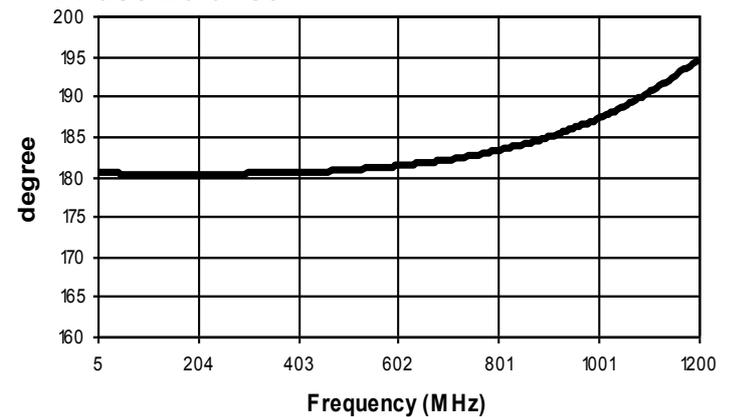
Insertion Loss 2: Pin 4-3



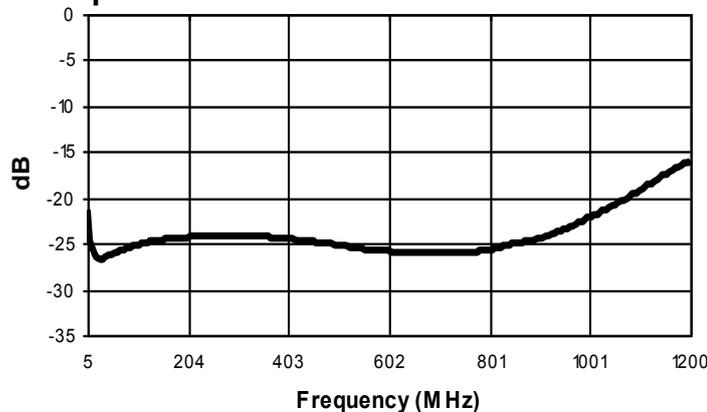
Amplitude Balance



Phase Balance



Input Return Loss: Pin 3



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