MAPD-009492-C2W180

Power divider, 2 Way 180 degree Splitter (also a 2:1 flux coupled balun)
5 to 1200 MHz
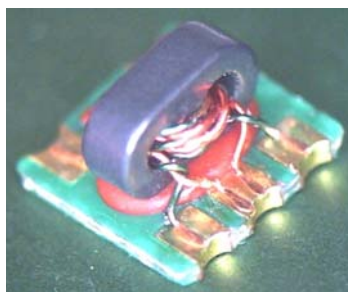
M/A-COM Products
Rev. V1

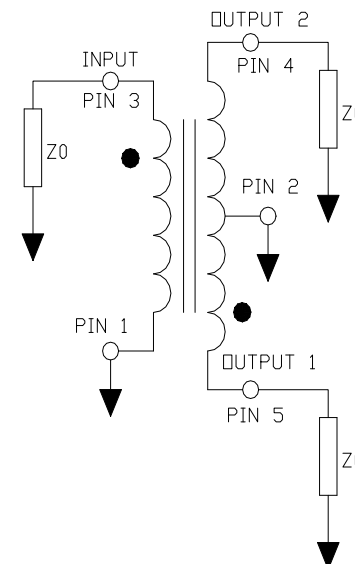## Features

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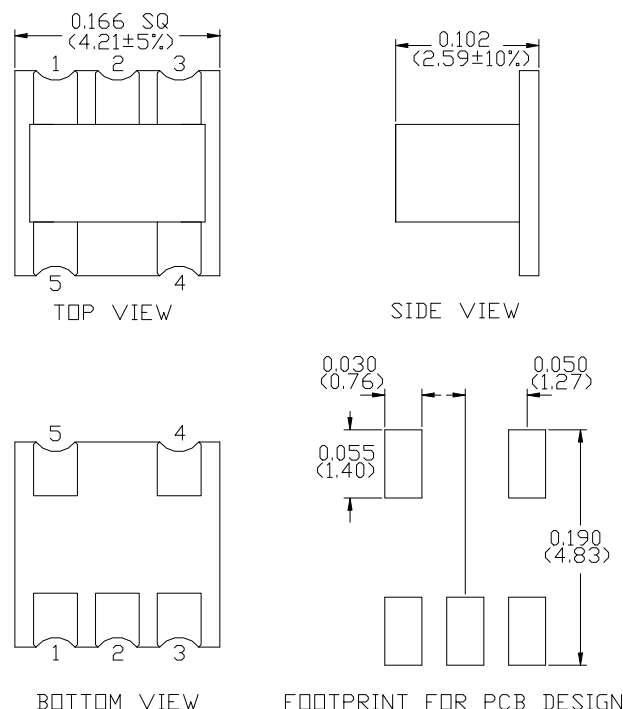- Available on tape and reel.

Description

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

Schematic

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.

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

Case style: SM-164

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

- **North America** Tel: 800.366.2266
- **India** Tel: +91.80.4155721
- **Europe** Tel: +353.21.244.6400
- **China** Tel: +86.21.2407.1588

Visit www.macomtech.com for additional data sheets and product information.

MAPD-009492-C2W180

| Power divider, 2 Way 180 degree Splitter (also a 2:1 flux coupled balun) 5 to 1200 MHz | M/A-COM Products Rev. V1 |

Electrical Specifications: T_A = 25°C, 0dBm, Z_0 = 75Ω

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

MAPD-009492-C2W180

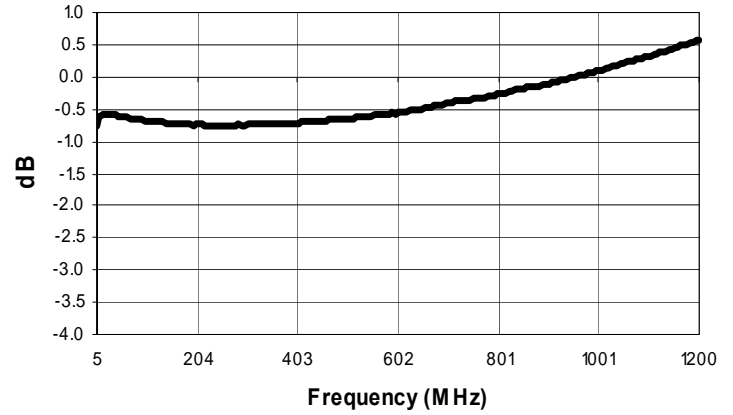Power divider, 2 Way 180 degree Splitter (also a 2:1 flux coupled balun)
5 to 1200 MHz

M/A-COM Products
Rev. V1

Typical Performance Curves: $T_A = 25°C$, $Z_0 = 75Ω$

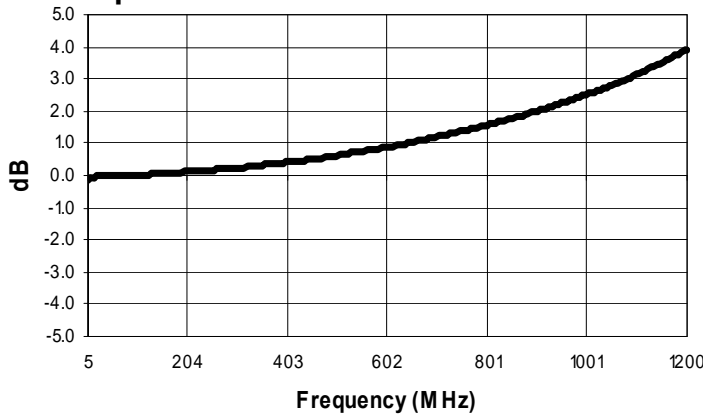### Insertion Loss 1: Pin 5-3
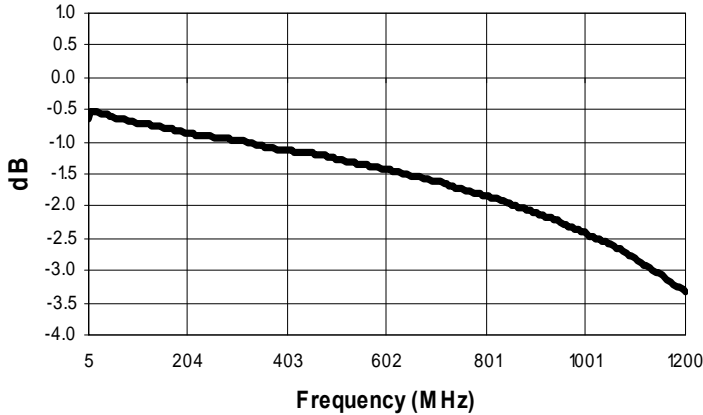
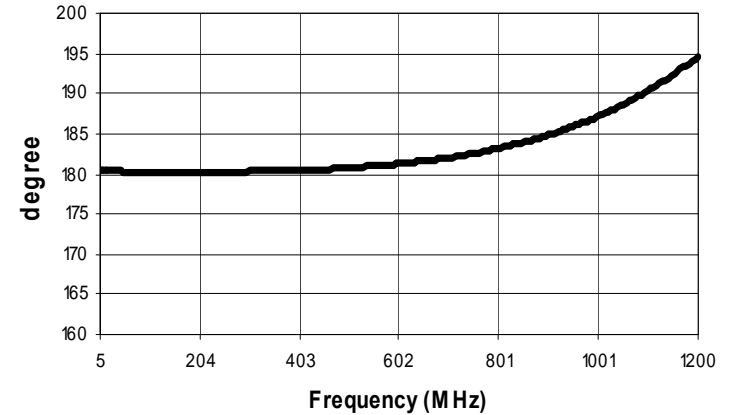### Insertion Loss 2: Pin 4-3

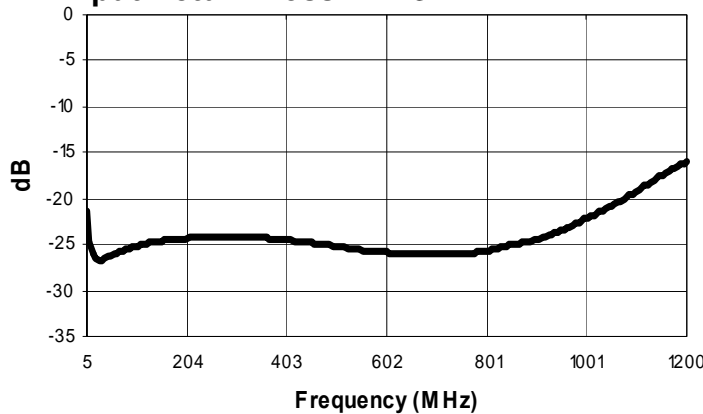### Amplitude Balance

Phase Balance

Input Return Loss: Pin 3