

2 Way 0° Power Divider 5 - 1218 MHz



MAPD-010274-C209C0

Rev. V6

Features

- Surface Mount Technology
- 2 Way 0°
- RoHS* Compliant
- Available on Tape & Reel

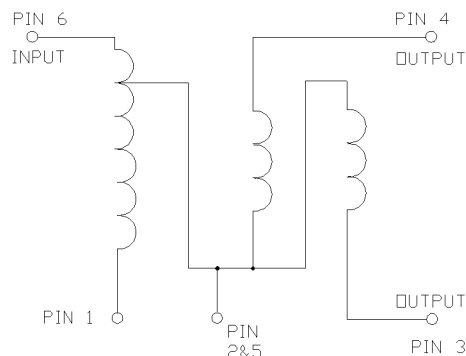
Applications

- ISM
- Wired Broadband

Description

The MAPD-010274-C209C0 is a 2 way 0 degree RF power divider in a surface mount package. Ideally suited for high volume CATV/VSAT applications.

Schematic



Pin Configuration

Pin #	Function
1	Ground
2, 5	External 0.5 pF Capacitor
3	Output Port 2
4	Output Port 1
6	Input

Ordering Information

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

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

Parameter	Test Conditions	Units	Min.	Typ.	Max.
Insertion Loss 1 (Pin6-Pin4)	5 - 500 MHz 500 - 1000 MHz 1000 - 1218 MHz	dB	—	0.15 0.25 0.65	0.3 0.7 0.9
Insertion Loss 2 (Pin6-Pin3)	5 - 500 MHz 500 - 1000 MHz 1000 - 1218 MHz	dB	—	0.45 0.65 1.1	0.6 1.1 1.5
Amplitude Balance	5 - 500 MHz 500 - 1000 MHz 1000 - 1218 MHz	dB	—	0.20 0.28 0.35	± 0.4 ± 0.5 ± 0.7
Phase Balance	5 - 500 MHz 500 - 1000 MHz 1000 - 1218 MHz	°	—	0.5 0.65 0.55	± 2 ± 3 ± 4
Input Return Loss	5 - 500 MHz 500 - 1000 MHz 1000 - 1218 MHz	dB	20 19 15	40 30 14	—
Output Return Loss 1 (Pin1-Pin4)	5 - 500 MHz 500 - 1000 MHz 1000 - 1218 MHz	dB	20 18 15	29 33 19	—
Output Return Loss 2 (Pin2-Pin3)	5 - 500 MHz 500 - 1000 MHz 1000 - 1218 MHz	dB	20 16 13	33 21 16	—
Isolation (between outputs)	5 - 500 MHz 500 - 1000 MHz 1000 - 1218 MHz	dB	20 16 15	24 20 18	—

Recommended Maximum Ratings

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

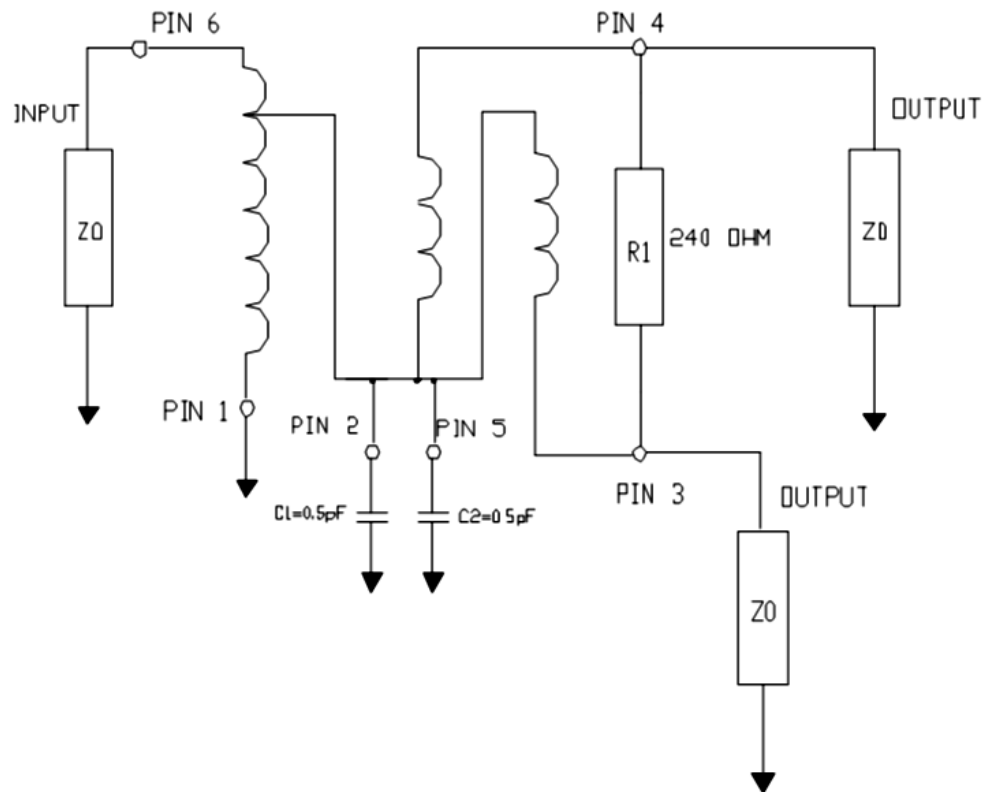
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Application Schematic



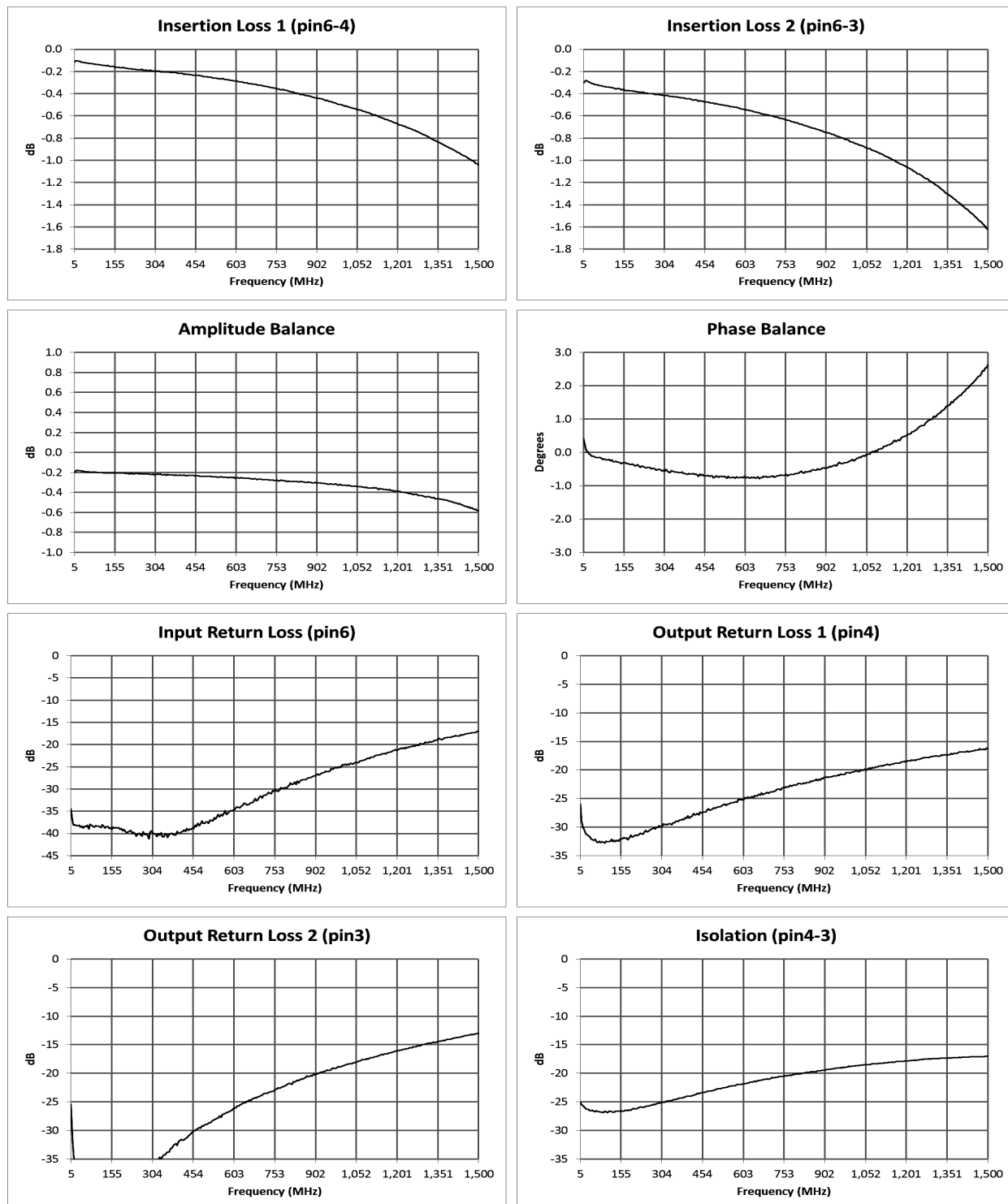
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• Full temperature plots are available on request

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DS-MAPD-010274-C209C0

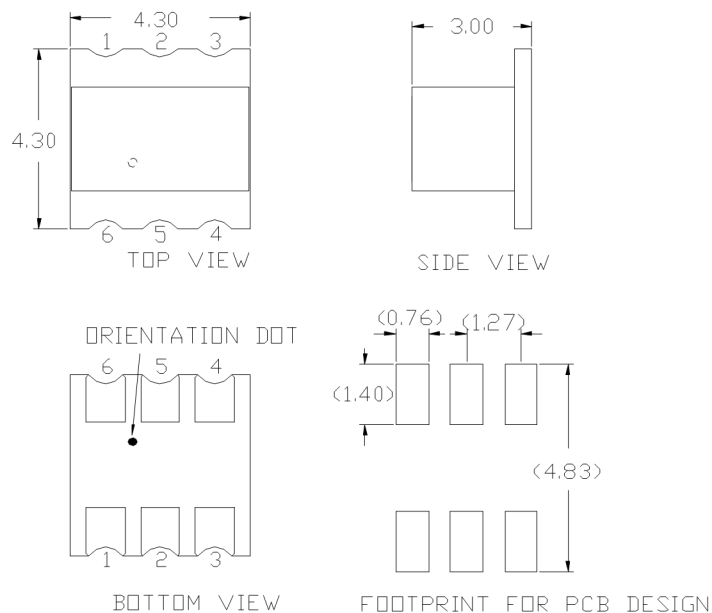
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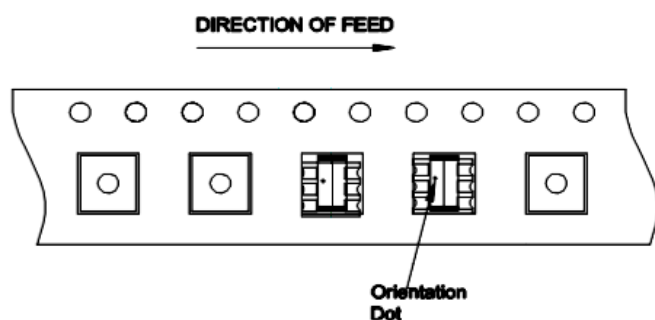
Component Dimensions



Dimensions in mm.

Tolerance: .xx ± 0.2 unless otherwise stated.

Carrier Tape Orientation



Tape & Reel Information

Parameter	Units	Value
Qty Per Reel	-	2000
Reel Size	mm	330
Tape Width	mm	12.00
Pitch	mm	8.00
Orientation	-	F18
Reference Application Note ANI-019 for orientation		

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