MAPD-009673-C2DA40



2 Way 0° Power Divider 5 to 1000 MHz

M/A-COM Products Released, Rev. V2

Features

- Surface mount.
- 2 Way 0 degree.
- 260°C reflow compatible.
- RoHS* compliant.
- Available on tape and reel.
- Recommended for Pb free process.

Description

M/A Com's MAPD-009673-C2DA40 is a 2 way 0 degree RF power divider in a low cost, surface mount package. Ideally suited for high volume CATV & VSAT applications. Two 0603 1pF capacitors and one 200Ω resistor are required with this part.



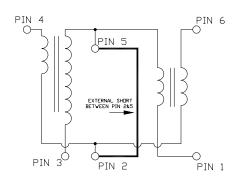
Pin configuration

Pin no.	Function		
1	Output 1		
2	External 1pF Capacitor to ground		
3	Ground		
4	Input		
5	External 1pF Capacitor to ground		
6	Output 2		

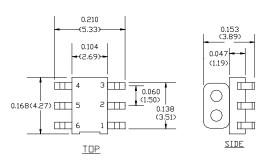
Ordering information

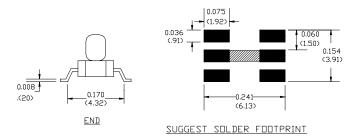
Part number	Description		
MAPD-009673-C2DA40	Reel quantity 2000		

Schematic with off-chip components



Case style: SM-150





Unless otherwise stated dimensions are in inches [mm] Tolerance: $.xx \pm .02$, $.xxx \pm .010$

<u>Note:</u> Pins 2 and 5 need to be connected together on the PCB as shown above.

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

Note: Reference Application Note M513 for reel size information.

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.

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- India Tel: +91.80.4155721
 China Tel: +86.21.2407.1588
 Visit www.macomtech.com for additional data sheets and product information.

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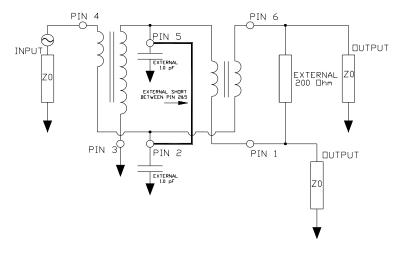
Electrical specifications: $T_A = 25^{\circ}C$, $Z_0 = 75\Omega$, $P_{in} = 0$ dBm

Parameter	Frequency	Units	Min	Тур	Max
Insertion Loss (Above 3dB)	5 - 400 MHz	dB	-	0.3	0.5
	400 - 820 MHz	dB	-	0.5	1.1
	820 - 1000 MHz	dB	-	1.1	2.2
Amplitude Unbalance	5 - 400 MHz	dB	-	0.2	± 0.5
	400 - 820 MHz	dB	-	0.2	± 0.3
	820 - 1000 MHz	dB	-	0.4	± 0.9
Phase Unbalance	5 - 400 MHz	0	-	0.5	± 4
	400 - 820 MHz	0	-	1.0	± 4
	820 - 1000 MHz	0	-	1.5	± 6
Return Loss: Input	5 - 400 MHz	dB	23	35	-
	400 - 820 MHz	dB	16	22	-
	820 - 1000 MHz	dB	17	24	-
Isolation (between outputs)	5 - 400 MHz	dB	18	35	-
	400 - 820 MHz	dB	20	32	-
	820 - 1000 MHz	dB	14	20	-

Recommended maximum ratings

Parameter	Value		
Input power	1W		
Internal Load Dissipation	0.125W		
Operating temperature	-40°C to +80°C		
Storage temperature	-40°C to +85°C		

Application Circuit



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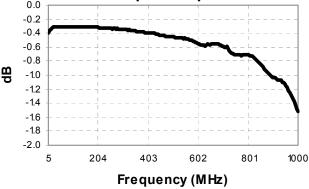


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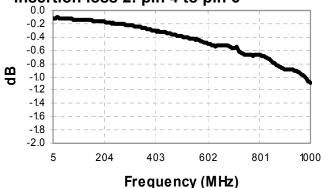
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Typical performance curves: $T_A = 25^{\circ}C$, $Z_0 = 75\Omega$, $P_{in} = 0$ dBm

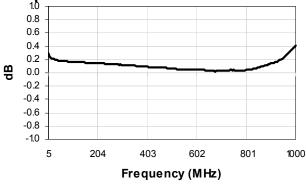
Insertion loss 1: pin 4 to pin 1



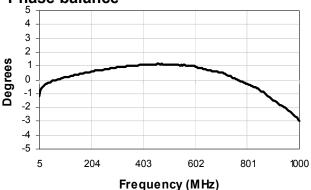
Insertion loss 2: pin 4 to pin 6



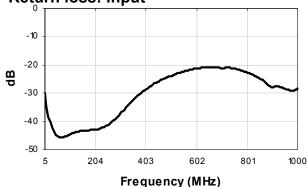
Amplitude balance



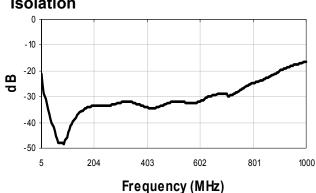
Phase balance



Return loss: Input



Isolation



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