

2 Way 0° Power Divider 5 - 1200 MHz

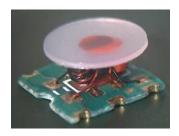
Rev. V2

Features

- Surface Mount
- 2 Way
- RoHS* Compliant
- Pb free.
- 260°C reflow compliant

Description

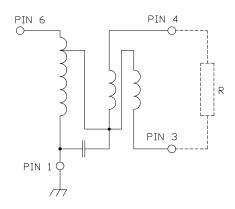
M/A-COM Technology Solutions MAPD-010281- C2W024 is a 2 Way 0^0 Power Divider in a low cost, surface mount package. Ideally suited for high volume CATV applications. An external 160Ω Chip resistor is required with this part.



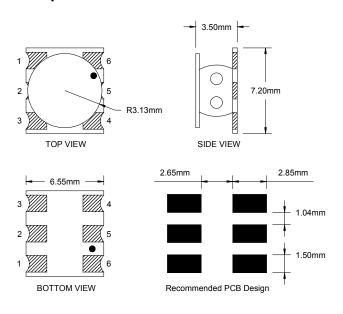
Pin Configuration

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

Schematic with external resistor



Component Dimensions:



Dimensions in mm. Tolerance: ± 0.20, unless otherwise stated. Drawing not to scale.

• North America Tel: 800.366.2266 • Europe Tel: +353.21.244.6400

· China Tel: +86.21.2407.1588

• India Tel: +91.80.43537383 Visit www.macomtech.com for additional data sheets and product information.

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



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Electrical Specifications: $T_A = 25$ °C, $Z_0 = 75\Omega$

Parameter	Test Conditions	Units	Min.	Тур.	Max.
Insertion Loss	5 – 500MHz	dB	_	3.50	3.90
(Ref. Level –3dB)	500 – 870MHz	dB	_	3.85	4.30
	870 – 1002Mhz	dB	_	3.97	4.51
	1002 – 1200MHz	dB	_	4.29	5.10
Amplitude Unbalance	5 – 40MHz	dB	_	0.2	±0.6
	40 – 400MHz	dB	_	0.22	±0.4
	400 – 1200MHz	dB	_	0.27	±0.6
Phase Unbalance	5 – 500MHz	0	_	1.3	±4.0
	500 – 1200MHz	0	_	2.1	±6.0
Output Return Loss	5 – 40MHz	dB	17	21.0	_
	40 – 1002MHz	dB	18	26.0	_
	1002 – 1200MHz	dB	16	23.5	_
Input Return Loss	5 – 40MHz	dB	18	36.0	_
_	40 – 1002MHz	dB	18	32.8	_
	1002 – 1200MHz	dB	18	22.6	_

Recommended Ratings^{1,2}

Parameter	Value
RF Power	+30dBm (1W)
DC Current	30 mA
Internal Load Dissipation	0.125W
Operating/Storage Temperature	-40° C to +125° C

^{1.} Exceeding any one or combination of these limits may cause permanent damage to this device.

^{2.} M/A-COM Technology Solutions does not recommend sustained operation near these survivability limits.

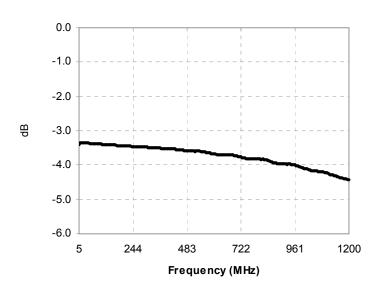


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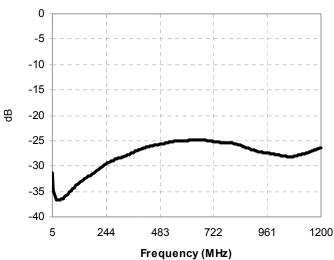
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Typical Performance Curves: $T_A = 25^{\circ}C$, $Z_0 = 75\Omega$

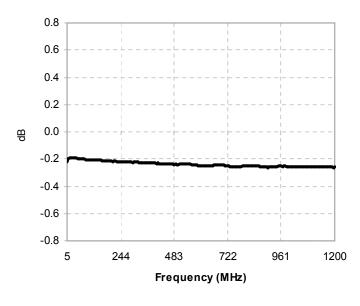
Insertion Loss



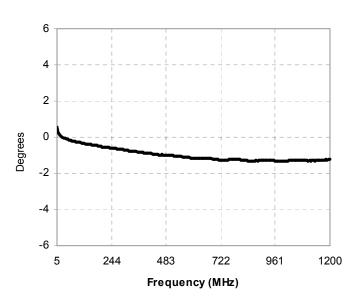
Input Return Loss



Amplitude Unbalance



Phase Unbalance



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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.

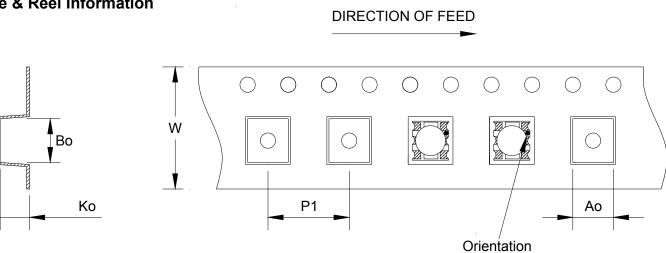
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Tape & Reel Information



Item	Dimension
Ao	6.70mm +/- 0.1mm
Во	7.50mm +/- 0.1mm
Ko	3.80mm +/- 0.1mm
W	16.00mm +/- 0.3mm
P1	12.00mm +/- 0.1mm

Ordering Information

Part Number	Package
MAPD-010281-C2W024	900 piece reel
1000024116	Sample Test Board

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