MAPDCT0024

2 Way 0° Power Divider 5 - 1200 MHz



Rev. V4

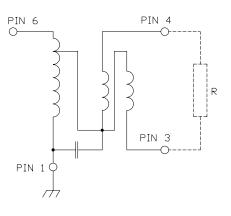
Features

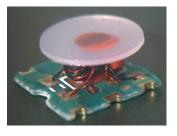
- Surface Mount
- 2 Way
- 0°
- RoHS* Compliant
- 260°C reflow compliant

Description

M/A-COM Technology Solutions MAPDCT0024 is a 2 Way 0^0 Power Divider in a low cost, surface mount package. Ideally suited for high volume CATV applications. An external 160 Ω Chip resistor is required with this part.

Schematic with external resistor

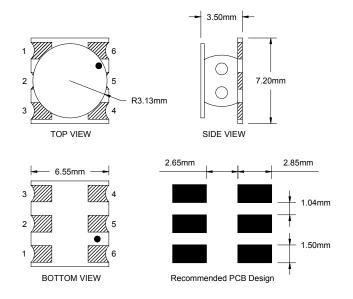




Pin Configuration

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

Component Dimensions:



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

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

Parameter	Test Conditions	Units	Min.	Тур.	Max.
Insertion Loss (Ref. Level –3dB)	5 – 500MHz 500 – 870MHz 870 – 1002Mhz 1002 – 1200MHz	dB dB dB dB	- - -	3.50 3.85 3.97 4.29	3.80 4.30 4.51 5.10
Amplitude Unbalance	5 – 40MHz 40 – 400MHz 400 – 1200MHz			0.2 0.22 0.27	±0.6 ±0.4 ±0.6
Phase Unbalance	5 – 500MHz 500 – 1200MHz	0 0		1.3 2.1	±4.0 ±6.0
Output Return Loss	5 – 40MHz 40 – 1002MHz 1002 – 1200MHz	dB dB dB	17 18 16	21.0 26.0 23.5	_ _ _
Input Return Loss	5 – 40MHz 40 – 1002MHz 1002 – 1200MHz	dB dB dB	18 18 18	36.0 32.8 22.6	_ _ _

Recommended Maximum Ratings

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

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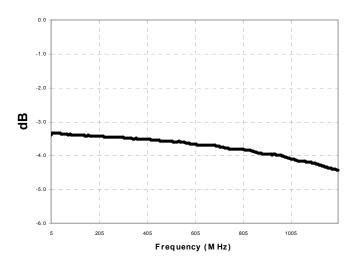


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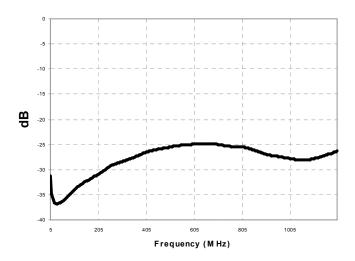
2 Way 0° Power Divider 5 - 1200 MHz

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

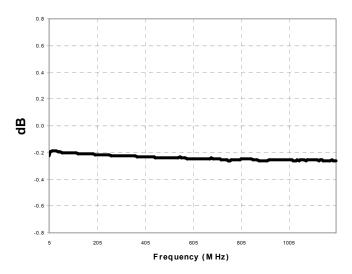
Insertion Loss



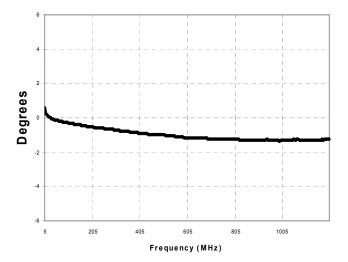
Input Return Loss



Amplitude Unbalance



Phase Unbalance



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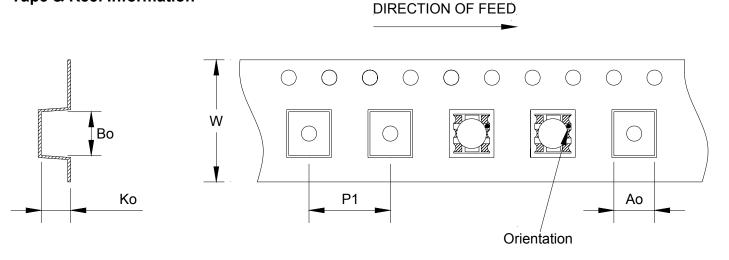
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Technology Solutions

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Tape & Reel Information



Item	Dimension	
Ao	6.70mm +/- 0.1mm	
Во	7.50mm +/- 0.1mm	
Ko	3.60mm +/- 0.1mm	
W	16.00mm +/- 0.3mm	
P1	12.00mm +/- 0.1mm	

Ordering Information

Part Number Package	
MAPDCT0024TR	900 piece reel
1000024116	Sample Test Board

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