MAPDCT0032



3 Way 0 Degree Power Divider 5 to 1200 MHz

M/A-COM Products
Part Status: Released, Rev. V2

Features

- Surface mount
- 3 Way 0 Degree
- RoHS Compliant and is 260°C reflow compatible
- RoHS version of MAPDCT0005 & MAPDCT0017
- Available on tape and reel, reel quantity 500

Description

M/A-COM's MAPDCT0032 is a 3 way 0 degree Power Divider in a low cost, surface mount package. Ideally suited for high volume CATV/Broadband applications. No external components are required with this product.



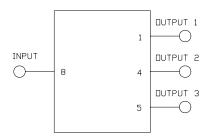
Pin Configuration

Function	Pin Number			
1	Output 1			
2,3,6,7	Ground			
4	Output 2			
5	Output 3			
8	Input			

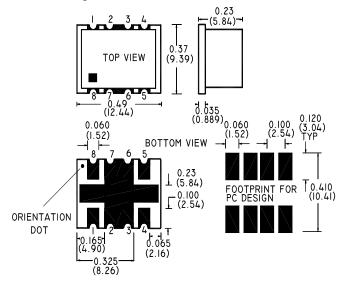
Ordering Information

Part Number	Package		
MAPDCT0032	500 piece reel		
MAPD-008112-CT32TB	Customer Test Board		

Schematic



Case Style SM-4



* Dimensions are inches (millimeters) ±0.015 (0.38) unless otherwise specified.

Absolute Maximum Ratings ^{1,2}

Parameter	Absolute Maximum			
RF Power	250 mW			
DC Current	30 mA			
Operating Temperature	-40°C to +85°C			
Storage Temperature	-40°C to +85°C			

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

Parameter	Frequency	Units	Min	Тур	Max
Insertion Loss 1 (pin8 - pin1) * Ref value -4.77dB	5 - 46 MHz 46 - 870 MHz 870 - 1002 MHz 1002 - 1200 MHz	dB dB dB dB	- - -	0.37 1.23 1.50 2.23	0.39 1.5 1.8 3.2
Insertion Loss 2 (pin8 - pin4) * Ref value -4.77dB	5 - 46 MHz 46 - 870 MHz 870 - 1002 MHz 1002 - 1200 MHz	dB dB dB dB	- - -	0.37 1.0 1.2 2.0	0.39 1.3 1.5 2.8
Insertion Loss 3 (pin8 - pin5) * Ref value -4.77dB	5 - 46 MHz 46 - 870 MHz 870 - 1002 MHz 1002 - 1200 MHz	dB dB dB dB	- - -	0.38 1.5 1.8 2.8	0.40 1.8 2.2 3.3
Input Return Loss *	5 - 46 MHz 46 - 405MHz 405 - 1002 MHz 1002 - 1200 MHz	dB dB dB dB	33 20 17.5 11	34 25 20 18	- - -
Output Return Loss 1&2 (Pin1, Pin4)	5 - 46 MHz 46 - 1200 MHz	dB dB	22 20	24 25	
Output Return Loss 3 * (Pin5)	5 - 46 MHz 46 - 740 MHz 740 - 1002 MHz 1002 - 1200 MHz	dB dB dB	22 20 17 14	24 20 25 18	- - -
Isolation Between all Outputs	5 - 46 MHz 46 - 1002 MHz 1002 - 1200 MHz	dB dB dB	34 20 18	40 25 24	- - -
Amplitude Unbalance, Output 1 to Output 2 (pin 1, 4)	5 - 46 MHz 46 - 1002 MHz	dB dB	-	0.0 0.3	-0.1 0.5
Amplitude Unbalance, Output 1 to Output 3 (pin 1, 5) & Output 2 to Output 3 (pin 4, 5)	5 - 46 MHz 46 - 1002 MHz	dB dB	-	-0.1 -0.3	-0.2 -0.5
Phase Unbalance between all Outputs	5 - 50 MHz 50 - 1200 MHz	0	-	0.4 3.0	0.5 4.0

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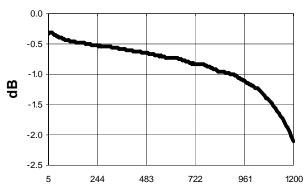


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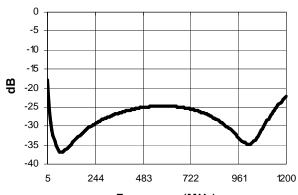
Typical Performance Curves @ $T_A = 25$ °C, $Z_0 = 75\Omega$





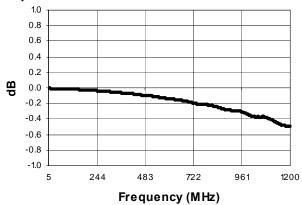
Frequency (MHz)

Isolation

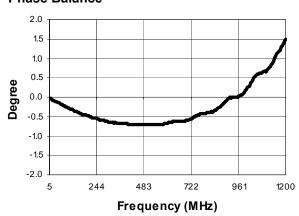


Frequency (MHz)

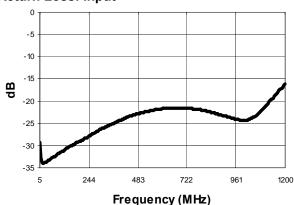
Amplitude Balance



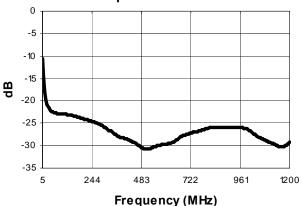
Phase Balance



Return Loss: Input



Return Loss: Output



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