RoHS Compliant

4 Way 0° Power divider 5-1000MHz



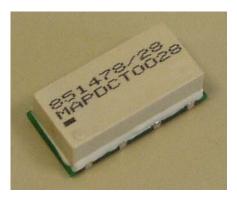
MAPDCT0028 V2P

Features

- Surface Mount
- 4 Way 0 degree
- 260°C Reflow Compatible
- RoHS* Compliant
- RoHS version of ESJ-4-2-75
- Available on Tape and Reel. Reel quantity 300

Description

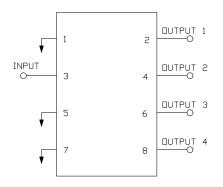
M/A-COM's MAPDCT0028 is a 4 way, high performance 0 degree, RF power divider in a low cost, surface mount package. Ideally suited for high volume CATV/Broadband applications.



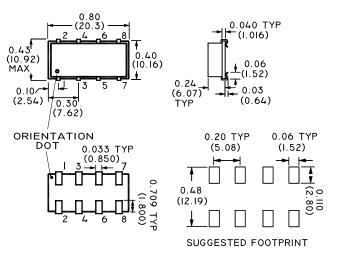
Pin Configuration

Pin No.	Function			
1	Ground			
2	Output 1			
3	Input			
4	Output 2			
5	Ground			
6	Output 3			
7	Ground			
8	Output 4			

Functional Block Diagram



Case Style: SM-46



Dimensions in inches [mm]. Tolerance where not specified: .xx \pm .02, .xxx \pm .010

Ordering Information

Part Number	Package			
MAPDCT0028TR	300 piece reel			

Note: Reference Application Note M513 for reel size information.

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



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Electrical Specifications: $T_A = 25^{\circ}C$, $Z_0 = 75\Omega^{-1}$

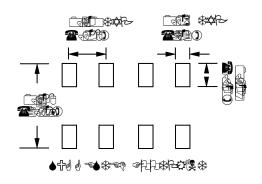
Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
Insertion Loss	-	5 - 80 MHz 80 - 870 MHz 870 - 1000 MHz	dB dB dB	- -	0.6 0.7 1.1	0.7 1.2 1.4
Isolation (between outputs 1&2 and outputs 3&4)	-	5-10 MHz	dB	17	25	-
Isolation (between all outputs)	-	5 - 800 MHz 800 - 1000 MHz	dB dB	20 18	40 21	-
Amplitude Unbalance (Nominal 0dB)	-	5 - 80 MHz 80 - 1000 MHz	dB dB	-	0.0 0.3	±0.1 ± 0.5
Phase Unbalance (Nominal 0°)	-	5 - 80 MHz 80 - 500 MHz 500 - 870 MHz 870 - 1000 MHz	0 0 0 0		0.1 0.5 1.0 1.0	± 1.0 ± 3.0 ± 6.0 ± 8.0
Return Loss: Input	-	5 - 80 MHz 80 - 870 MHz 870 - 1000 MHz	dB dB dB	21 17 15	25 21 17	
Return Loss: Output	-	5 - 10 MHz 10 - 1000 MHz	dB dB	13 16	18 19	

Absolute Maximum Ratings ^{1,2}

Parameter	Absolute Maximum			
Max Input Power	1W			
DC current	240mA			
Operating Temperature	-40°C to +85°C			
Storage Temperature	-55°C to +100°C			

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

 M/A-COM does not recommend sustained operation near these survivability limits. **Recommended PCB Configuration**



- 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 in the statement of produce in volume is not guaranteed.
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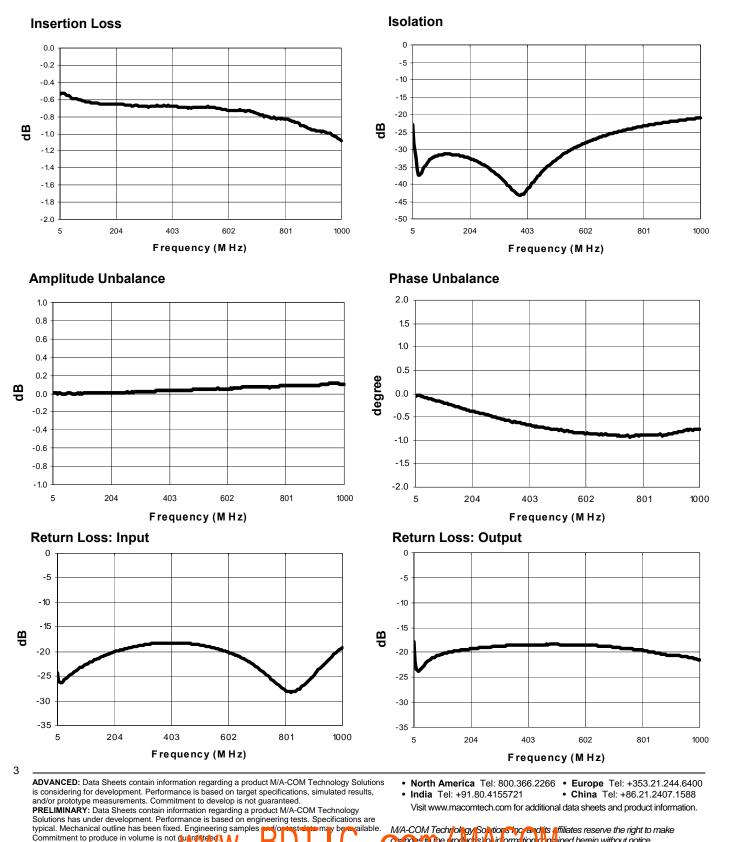


4 Way 0° Power divider 5-1000MHz



MAPDCT0028 V₂P

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



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