MAPDCT0033

2 Way 0° Power Divider 5-1000MHz

Features

- Surface Mount •
- 2 Way 0 degree
- 260°C Reflow Compatible •
- **RoHS*** Compliant •
- RoHS version of ELPD-20-1 •
- Available on Tape and Reel. Reel quantity 900 •

Description

M/A-COM's MAPDCT0033 is 2 way 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	Not connected (ground)		
3	Output 1		
4	Output 2		
5	Not connected (ground)		
6	Input		

Ordering Information

Part Number	Package		
MAPDCT0033	900 piece reel		
MAPD-008086-CT33TB	Customer test board		

Note: Reference Application Note M513 for reel size information.

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

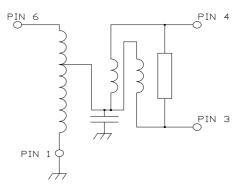
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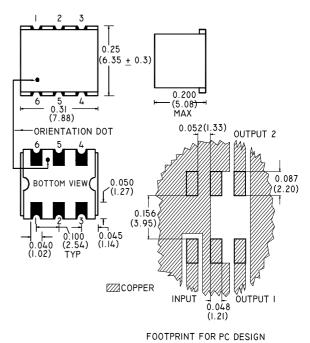
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typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in volume is not guaranteed.

Schematic



Case Style: SM-139



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

Dimensions in inches [mm] Tolerance: .xx ± .02, .xxx ± .010

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M/A-COM Products

Rev. V2

MAPDCT0033



2 Way 0° Power Divider 5-1000MHz

M/A-COM Products Rev. V2

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

Parameter	Frequency	Units	Min	Тур	Max
Insertion Loss	5 - 50 MHz 50 - 500 MHz 500 - 1000 MHz	dB dB dB	- - -	0.2 0.5 1.0	0.5 0.8 1.3
Amplitude Unbalance (Nominal 0dB)	5 - 50 MHz 50 - 500 MHz 500 - 1000 MHz	dB dB dB	- - -	0.0 0.0 0.1	± 0.1 ± 0.3 ± 0.5
Phase Unbalance (Nominal 0°)	5 - 50 MHz 50 - 500 MHz 500 - 1000 MHz	0 0 0	- - -	0.0 0.4 0.8	± 1.0 ± 3.0 ± 4.0
Return Loss: Input	5 - 750 MHz 750 - 1000 MHz	dB dB	18 12	35 25	-
Return Loss: Output	5 - 750 MHz 750 - 1000 MHz	dB dB	18 15	22 24	-
Isolation (between outputs)	5 - 50 MHz 50 - 500 MHz 500 - 1000 MHz	dB dB dB	22 22 18	26 29 22	

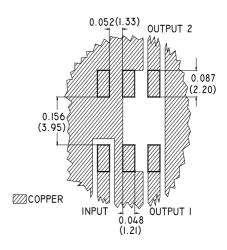
Absolute Maximum Ratings ^{1,2}

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.

2. M/A-COM does not recommend sustained operation near these survivability limits.

Recommended PCB Configuration



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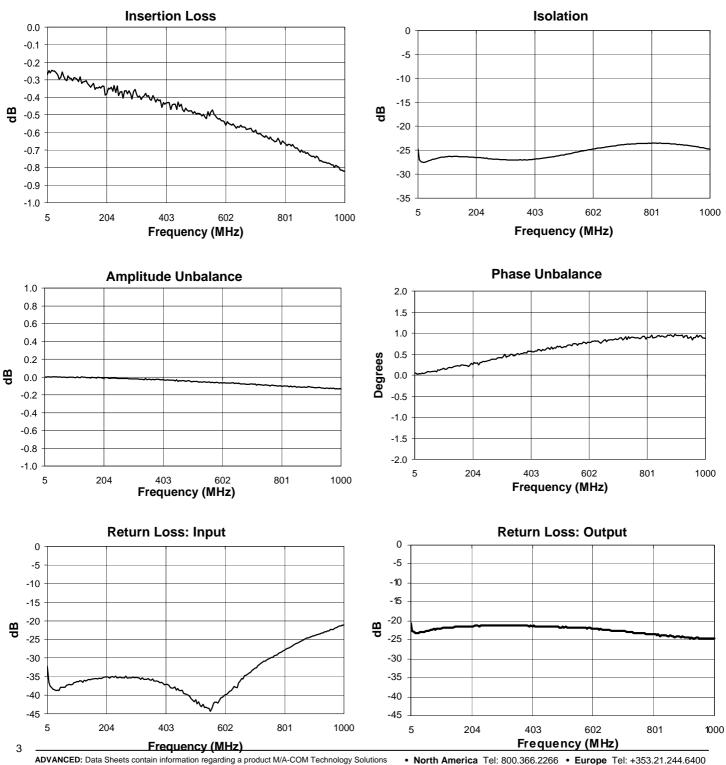
MAPDCT0033



2 Way 0° Power Divider 5-1000MHz

M/A-COM Products Rev. V2

Typical Performance Curves: $T_A = 25^{\circ}C$, $Z_0 = 75\Omega^{-1}$



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