### 2 Way 0° Power Divider 5-1000MHz



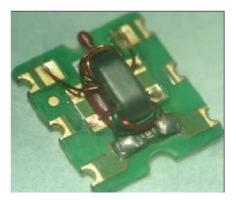
Rev. V3

#### Features

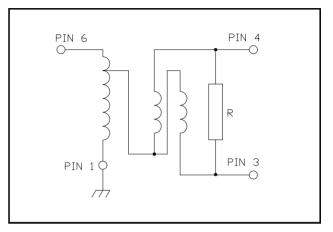
- Surface Mount
- 2 Way 0 degree
- 260°C Reflow Compatible
- RoHS\* Compliant
- Available on Tape and Reel.

#### Description

M/A-COM's MAPDCT0029 is 2 way 0 degree RF power divider in a low cost, surface mount package. A 160 Ohm resistor included on the component. Ideally suited for high volume CATV/Broadband applications.



### **Functional Block Diagram**



#### **Pin Configuration**

Pin No.	Function				
1	Ground				
2	Not connected (ground)				
3	Output 2				
4	Output 1				
5	Not connected (ground)				
6	Input				

## Absolute Maximum Ratings <sup>1,2</sup>

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.

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

Package

900 piece reel

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**Ordering Information** 

Reference Application Note M513 for reel size information.

Part Number

MAPDCT0029TR

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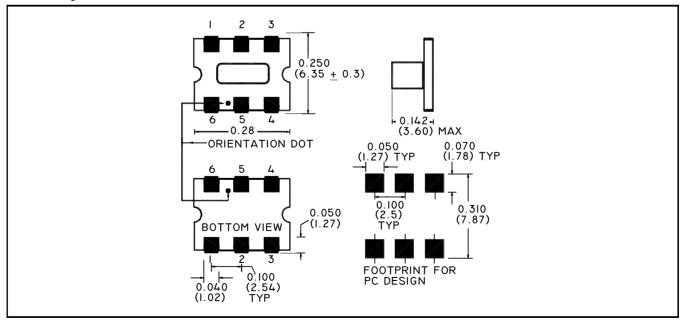


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## Electrical Specifications: $T_A = 25^{\circ}C$ , $Z_0 = 75\Omega^{-1}$

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
Insertion Loss	-	5 - 500 MHz	dB	-	0.5	0.7
Insertion Loss	-	500 - 1000 MHz	dB	-	0.7	1.4
Amplitude Unbalance (Nominal 0dB)	-	5 - 1000 MHz	dB	-	± 0.28	± 0.55
Phase Unbalance (Nominal 0°)	-	5 - 1000 MHz	0	-	± 1.0	± 3.0
Return Loss: Input	-	5 - 50 MHz	dB	24	35	-
Return Loss: Input	-	50 - 870 MHz	dB	14	26	-
Return Loss: Input	-	870 - 1000 MHz	dB	11	16	-
Return Loss: Output	-	5 - 1000 MHz	dB	15	22.5	-
Isolation (between outputs)	-	5 - 50 MHz	dB	20	26	-
Isolation (between outputs)	-	50 - 870 MHz	dB	14	22	-
Isolation (between outputs)	-	870 - 1000 MHz	dB	12	15	-

### Case Style: SM-55



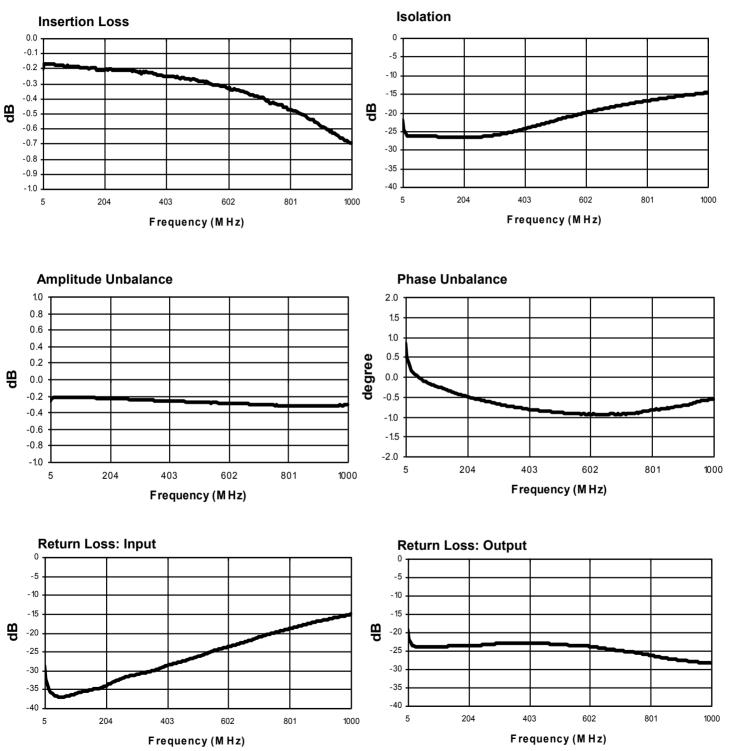
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## 2 Way 0° Power Divider 5-1000MHz

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



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