



MAPD-008185-C20720

2 Way 0° Power Divider 50-120MHz

Features

- Surface Mount
- 2 Way 0º Power Divider
- 260°C Reflow Compatible
- RoHS* Compliant
- RoHS version of ESSM-2-9-75
- Available on Tape and Reel. Reel Quantity 2000

Description

M/A-COM's MAPD-008185-C20720 is a 2 Way 0° Power Divider in a low cost, surface mount package. ideally suited for high volume cellular, wireless and CATV applications. No external resistor is required with this part.



Pin Configuration

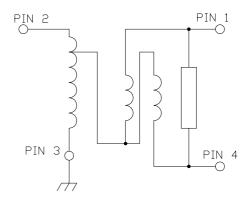
Function
Port 1
Input
Ground
Port 2

Ordering Information

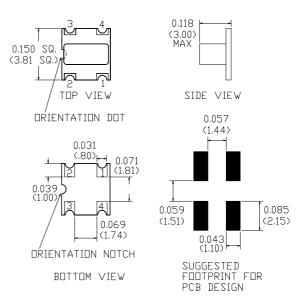
Part Number	Package
MAPD-008185-C20720	2000
MAPD-008185-C207TB	Customer Test Board

Note: Reference Application Note M513 for reel size information.

Schematic



Case Style: SM-114



Dimensions in inches [mm] Tolerance: $.xx \pm .02$, $.xxx \pm .010$

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 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 and/or test data may be available. Commitment to produce in volume is not guaranteed.
- North America Tel: 800.366.2266 Europe Tel: +353.21.244.6400
- India Tel: +91.80.4155721
 China Tel: +86.21.2407.1588
 Visit www.macomtech.com for additional data sheets and product information.

M/A-COM Technology Solutions Inc. and its affiliates reserve the right to make changes to the product(s) or information contained herein without notice.

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





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Electrical Specifications: $T_A = 25$ °C, $Z_0 = 75\Omega^1$

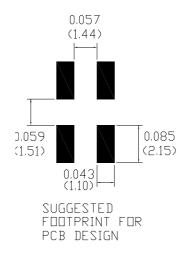
Parameter	Frequency	Units	Min	Тур	Max
Insertion Loss	5 - 120 MHz	dB	_	00.3	00.6
Isolation	5 - 50MHz 50 - 60MHz 60 - 120MHz	dB dB dB	23 22 21	_ _ _	_ _ _
Amplitude Unbalance	5 - 120MHz	dB	_	_	00.5
Phase Unbalance	5 - 120 MHz	0	_	_	2.0°

Absolute Maximum Ratings ^{1,2}

Parameter	Absolute Maximum
RF Power	1 Watt
Internal Load Dissipation	0.125 Watt
Pin Temp (10 Sec)	260°C
Operating/Storage Temperature	-55°C to +100°C

- 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



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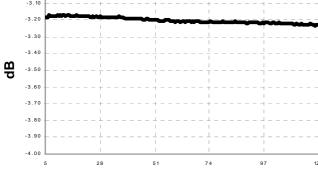


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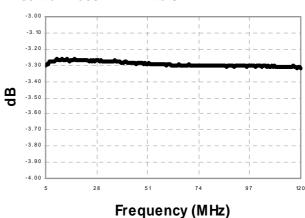
Typical Performance Curves: $T_A = 25^{\circ}C$, $Z_0 = 75\Omega^{-1}$

Insertion Loss 1: Pin 4 to 1

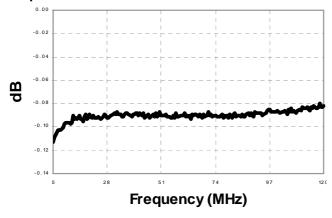


Frequency (MHz)

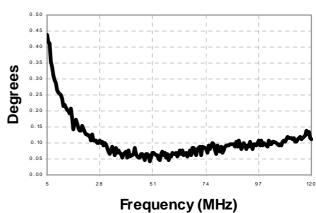
Insertion Loss 2: Pin 4 to 6



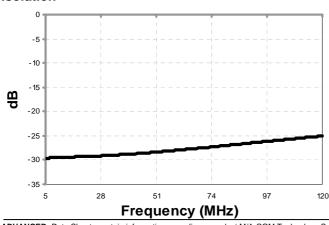
Amplitude Unbalance



Phase Unbalance



Isolation



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