MAPD-008812-0003HW

E-Series 3-Way 0° Power Divider 5-1000 MHz

Features

- Surface Mount
- 3 Way 0 Degree
- 260°C Reflow Compatible
- RoHS* Compliant
- Available on Tape and Reel

Description

M/A-COM's MAPD-008812-0003HW is a 3 way 0 degree Power Divider in a low cost, surface mount package. Ideally suited for high volume wireless applications. No external components are required with this product.

Ordering Information

Part Number	Package	
MAPD-008812-0003HW	500	

Absolute Maximum Ratings ^{1,2}

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

This PRELIMINARY Data Sheet contains information regarding a product M/A-COM has under development. Performance is based on measured results and target specifications. Commitment to produce in volume is not guaranteed.

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

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- Visit www.macomtech.com for additional data sheets and product information.

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Case Style: SM-4



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

Pin Configuration

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

Schematic





Rev. V1P

MAPD-008812-0003HW



E-Series 3-Way 0° Power Divider

5-1000 MHz

Electrical Specifications: $T_A = 25^{\circ}C$, $Z_0 = 50\Omega$

Parameter	Frequency	Units	Min	Тур	Мах
Insertion Loss	5 - 200 MHz 200 - 500 MHz	dB dB	-	0.5	0.6
	500 - 900 MHz 900 - 1000 MHz	dB dB	-	1.5	2.0
Input Return Loss *	5 - 800 MHz 800 - 900 MHz 900 - 1000 MHz	dB dB dB	13 20 11	15 25 14	-
Output Return Loss	5 - 1000 MHz	dB	18	24	-
Isolation Between Outputs	5 - 700 MHz 700 - 1000 MHz	dB dB	19 20	20 28	-
Amplitude Unbalance	5 - 1000 MHz	dB	-	0.1	0.5
Phase Unbalance	5 - 1000 MHz	0	-	1.5	5.0

Typical Performance Curves: $T_A = 25^{\circ}C$, $Z_0 = 50\Omega$





Amplitude Unbalance



Output Return Loss



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Input Return Loss

0 -10 -20 -30 -40 -50 0 200 400 600 800 1000 MHz

Phase Unbalance







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Rev. V1P