MAPD-008812-0003HW

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

Rev. V1P

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

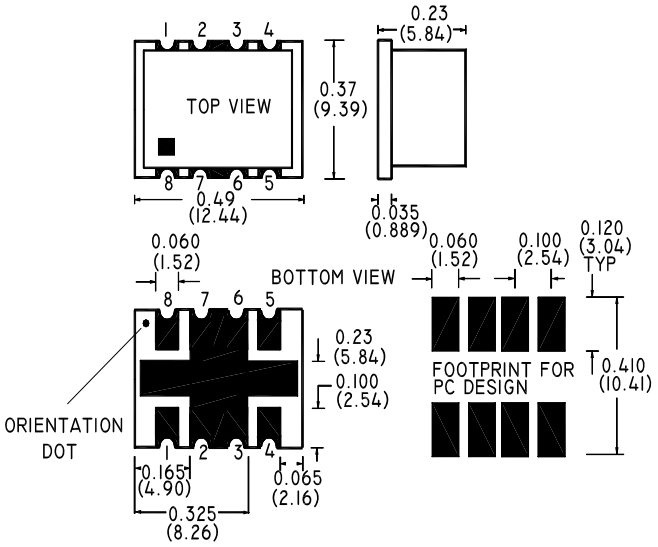
Absolute Maximum Ratings [1,2]

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.
2. 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.

Case Style: SM-4

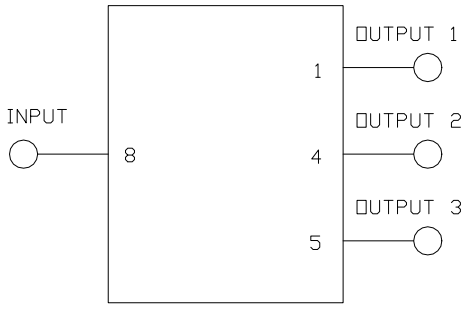


Dimensions in inches [mm] Tolerance: .xx ± .02, .xxx ± .010

Pin Configuration

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

Schematic



• **North America** Tel: 800.366.2266 • **Europe** Tel: +353.21.244.6400
• **India** Tel: +91.80.43537383 • **China** Tel: +86.21.2407.1588
Visit www.macomtech.com for additional data sheets and product information.

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

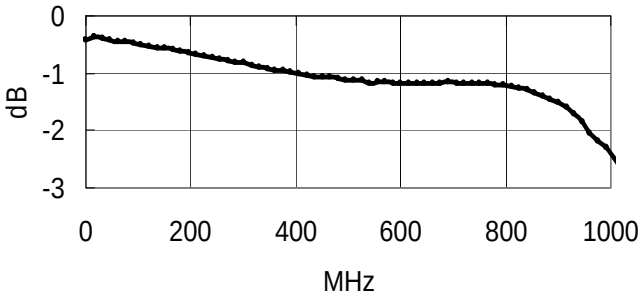
Rev. V1P

Electrical Specifications: T_A = 25°C, Z_0 = 50Ω

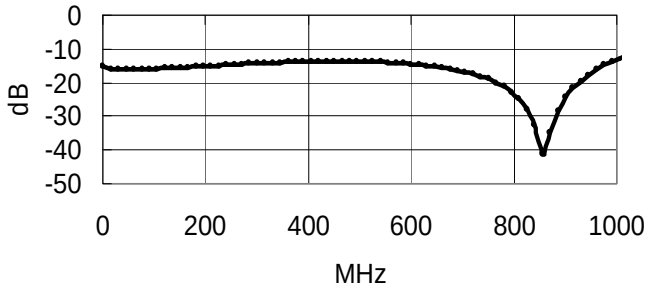
Parameter	Frequency	Units	Min	Typ	Max
Insertion Loss Ref value -4.77dB	5 - 200 MHz 200 - 500 MHz 500 - 900 MHz 900 - 1000 MHz	dB dB dB dB	- - - -	0.5 1.0 1.5 2.5	0.6 1.5 2.0 3.2
Input Return Loss *	5 - 800 MHz 800 - 900 MHz 900 - 1000 MHz	dB dB dB	13 20 11	15 25 14	- - -
Output Return Loss	5 - 1000 MHz	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	°	-	1.5	5.0

Typical Performance Curves: T_A = 25°C, Z_0 = 50Ω

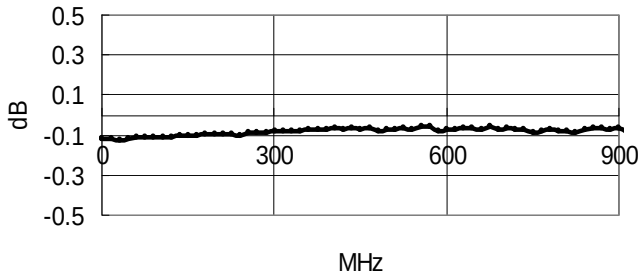
Insertion Loss



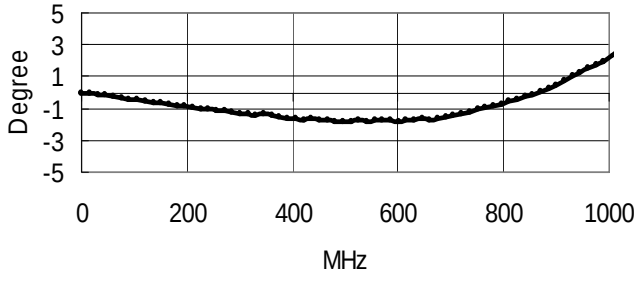
Input Return Loss



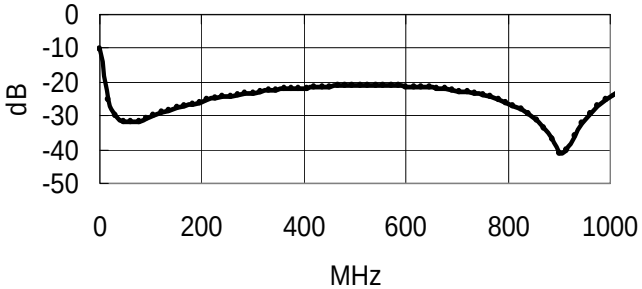
Amplitude Unbalance



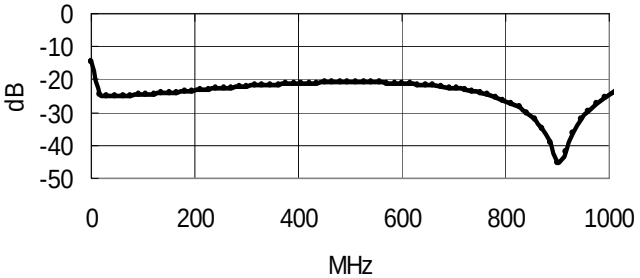
Phase Unbalance



Output Return Loss



Isolation



• **North America** Tel: 800.366.2266 • **Europe** Tel: +353.21.244.6400
• **India** Tel: +91.80.43537383 • **China** Tel: +86.21.2407.1588
Visit www.macomtech.com for additional data sheets and product information.