

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

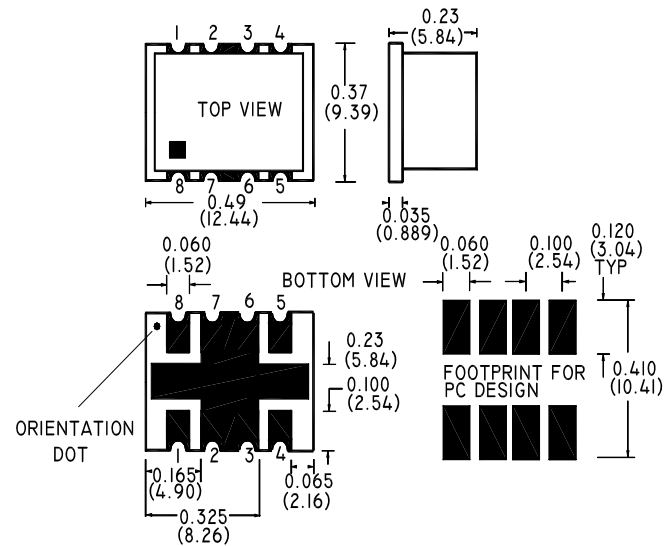
Absolute Maximum Ratings ^{1,2}

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

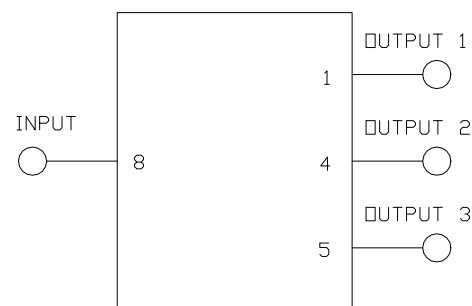


Dimensions in inches [mm] Tolerance: .xx ± .02, .xxx ± .010

Pin Configuration

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

Schematic



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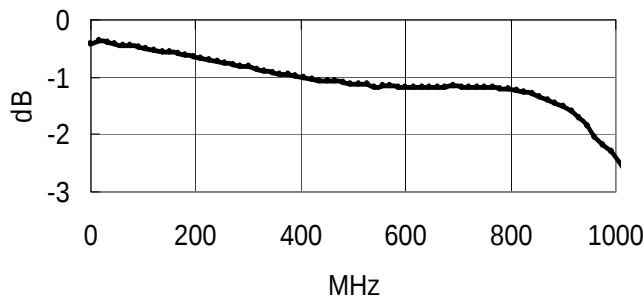
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Electrical Specifications: $T_A = 25^\circ\text{C}$, $Z_0 = 50\Omega$

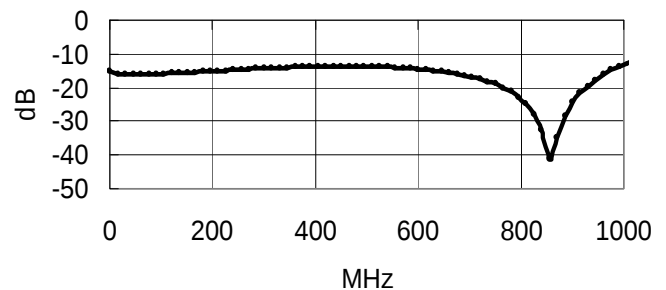
Parameter	Frequency	Units	Min	Typ	Max
Insertion Loss Ref value -4.77dB	5 - 200 MHz	dB	-	0.5	0.6
	200 - 500 MHz	dB	-	1.0	1.5
	500 - 900 MHz	dB	-	1.5	2.0
	900 - 1000 MHz	dB	-	2.5	3.2
Input Return Loss *	5 - 800 MHz	dB	13	15	-
	800 - 900 MHz	dB	20	25	-
	900 - 1000 MHz	dB	11	14	-
Output Return Loss	5 - 1000 MHz	dB	18	24	-
Isolation Between Outputs	5 - 700 MHz	dB	19	20	-
	700 - 1000 MHz	dB	20	28	-
Amplitude Unbalance	5 - 1000 MHz	dB	-	0.1	0.5
Phase Unbalance	5 - 1000 MHz	°	-	1.5	5.0

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

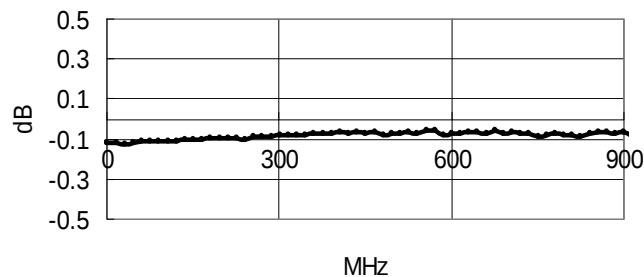
Insertion Loss



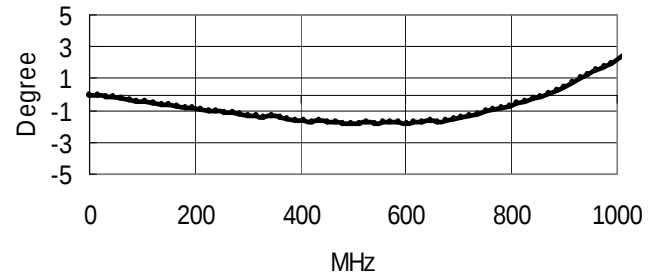
Input Return Loss



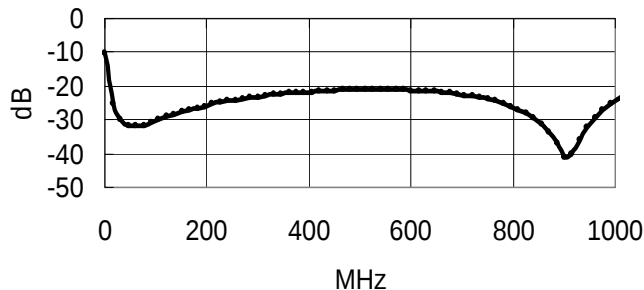
Amplitude Unbalance



Phase Unbalance



Output Return Loss



Isolation

