

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

Rev. V2

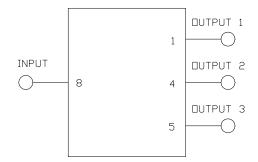
#### **Features**

- 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.

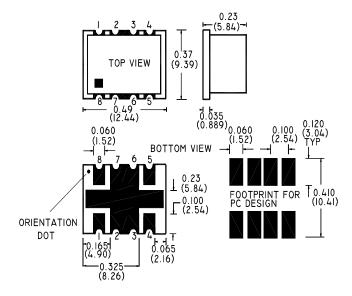
#### **Schematic**



### **Product Image**



## 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

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• China Tel: +86.21.2407.1588



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Electrical Specifications:  $T_A = 25$ °C,  $Z_0 = 50\Omega$ 

Parameter	Frequency	Units	Min	Тур	Max
Insertion Loss Ref value -4.77dB	5 - 700 MHz 700 - 1000 MHz	dB dB	-	0.8 3.0	1.5 8.0
Input Return Loss	5 - 600 MHz 600 - 800 MHz 800 - 1000 MHz	dB dB dB	20 10 5	23 17 8	- - -
Output Return Loss	5 - 700 MHz 700 - 1000 MHz	dB dB	20 13	25 18	-
Isolation Between Outputs	5 - 800 MHz 800 - 1000 MHz	dB dB	20 13	25 16	-
Amplitude Unbalance	5 - 1000 MHz	dB	-	0.15	0.6
Phase Unbalance	5 - 1000 MHz	0	-	2.0	10.0

## Absolute Maximum Ratings 1,2

Parameter	Absolute Maximum
DC Power	250 mW
DC Current	30 mA
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +125°C

<sup>1.</sup> 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.

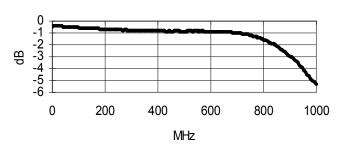


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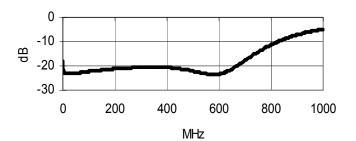
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## **Typical Performance Curves**

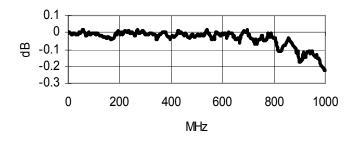
#### **Insertion Loss**



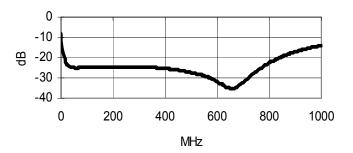
#### **Input Return Loss**



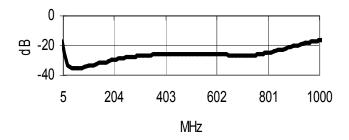
#### **Amplitude Unbalance**



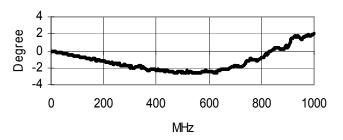
#### **Output Return Loss**



#### Isolation



#### **Phase Unbalance**



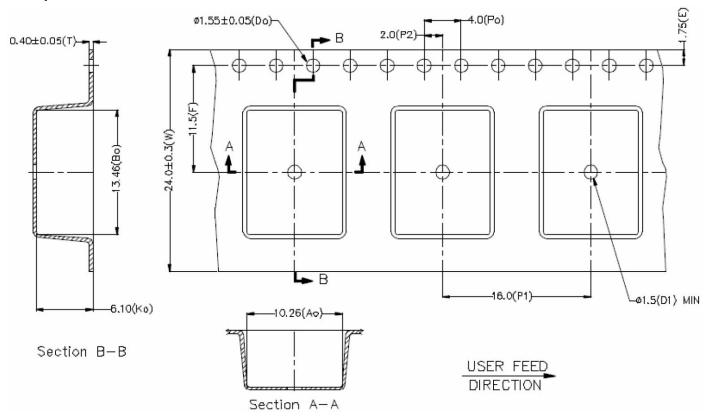
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#### **Tape & Reel Information**



Item	Dimension
Ao	10.26mm +/-0.1mm
Во	13.46mm +/-0.1mm
Ko	6.10mm +/-0.1mm
W	24.00mm +/-0.3mm
P1	16.00mm +/-0.1mm

## **Ordering Information**

Part Number	Package
MAPD-008812-0003HW	Tape and Reel (500 piece Reel)

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.

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