

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

Rev. V2

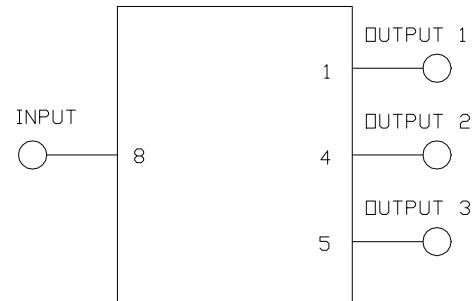
Features

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

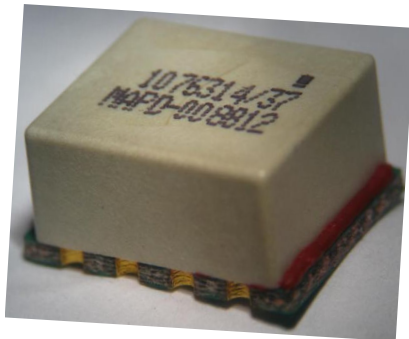
Description

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.

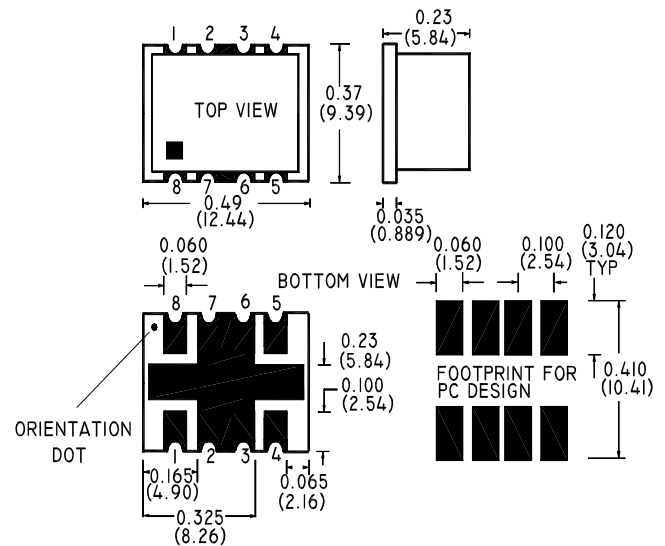
Schematic



Product Image



Case Style: SM-4



Pin Configuration

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

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

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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 - 700 MHz	dB	-	0.8	1.5
	700 - 1000 MHz	dB	-	3.0	8.0
Input Return Loss	5 - 600 MHz	dB	20	23	-
	600 - 800 MHz	dB	10	17	-
	800 - 1000 MHz	dB	5	8	-
Output Return Loss	5 - 700 MHz	dB	20	25	-
	700 - 1000 MHz	dB	13	18	-
Isolation Between Outputs	5 - 800 MHz	dB	20	25	-
	800 - 1000 MHz	dB	13	16	-
Amplitude Unbalance	5 - 1000 MHz	dB	-	0.15	0.6
Phase Unbalance	5 - 1000 MHz	°	-	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

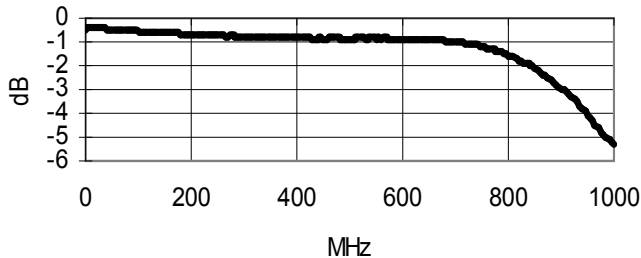
1. Exceeding any one or combination of these limits may cause permanent damage to this device.
2. M/A-COM does not recommend sustained operation near these survivability limits.

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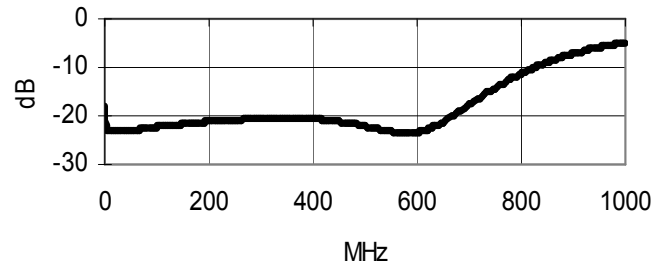
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Typical Performance Curves

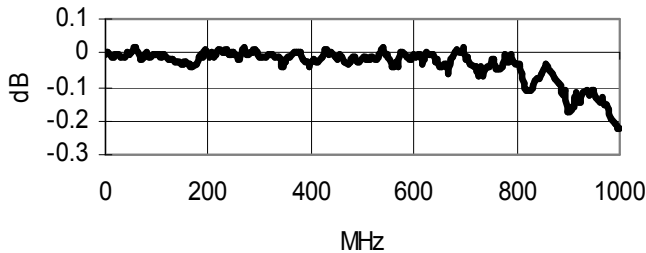
Insertion Loss



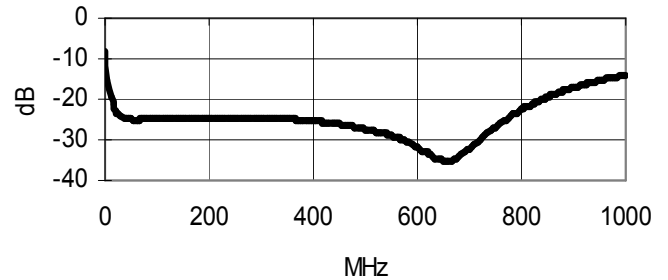
Input Return Loss



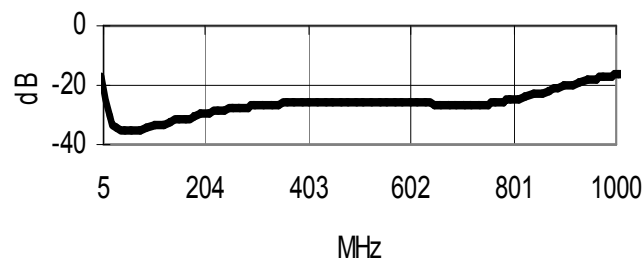
Amplitude Unbalance



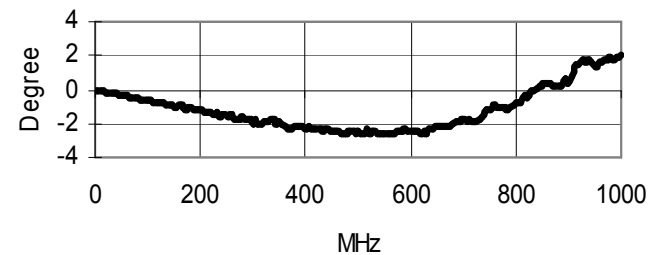
Output Return Loss



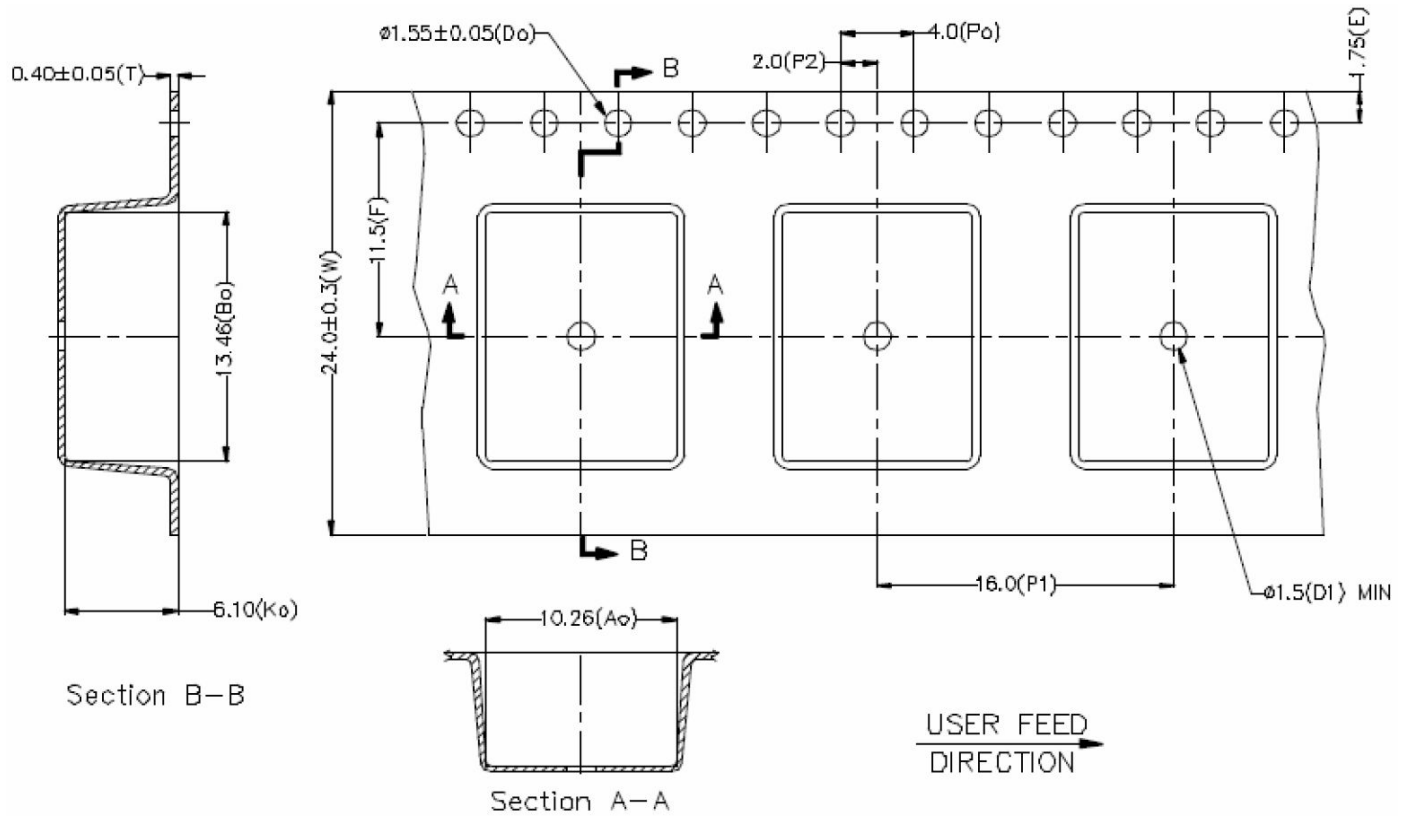
Isolation



Phase Unbalance



Tape & Reel Information



Item	Dimension
Ao	10.26mm +/-0.1mm
Bo	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)