

2 Way 0° Power Divider 5 to 1000 MHz

Rev. V1

Features

- Surface Mount
- 2 way 0 degree
- 260°C Reflow Compatible
- RoHS* Compliant
- Available on Tape and Reel.

Description

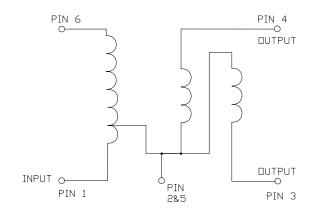
M/A-COM Technology Solutions MAPD-010038-C209C0 is a 2 way 0 degree RF power divider in a low cost, surface mount package. Ideally suited for high volume CATV/VSAT applications.



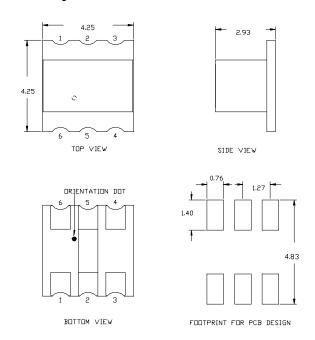
Pin Configuration

Function
Input
External 0.5pF Capacitor
Output Port 1
Output Port 2
External 0.5pF Capacitor
Ground

Schematic



Case Style:



Dimensions in mm Tolerance: .xx ± .1, .xxx ± .010, unless otherwise stated

^{*} Restrictions on Hazardous Substances, European Union Directive 2002/95/EC.

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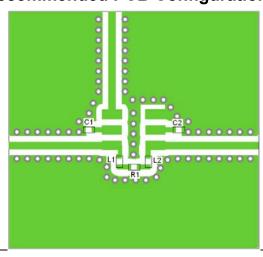
Electrical Specifications: $T_A = 25^{\circ}C$, 0dBm, $Z_0 = 75\Omega$, $P_{in} = 0$ dBm

Parameter	Test Conditions	Units	Min	Тур	Max
Insertion Loss (Above 3dB)	5 - 50 MHz 50 - 500MHz 500 - 1000MHz	dB dB dB		0.53 0.55 0.65	0.7 0.8 1.0
Amplitude Balance	5 - 1000 MHz	dB	-	0.3	± 0.6
Phase Balance	5 - 1000 MHz	O	-	0.3	± 4.0
Input Return Loss	5 - 1000 MHz	dB	20	30	-
Output Return Loss	5 - 50 MHz 50 - 1000MHz	dB dB	17 20	23 27	
Isolation (between outputs)	5 - 50 MHz 50 - 1000MHz	dB dB	24 30	40 38	-

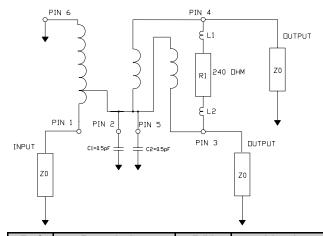
Recommended Maximum Ratings

Parameter	Value
Input power	1W
Internal Load Dissipation	0.125W
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C

Recommended PCB Configuration



Application Circuit



Ref	Description	P/N	Vendor
R1	RES,0402	240Ω	ROHM
L1	IND,0402,TBD	8.2nH	COILCRAFT
L2	IND,0402,TBD	8.2nH	COILCRAFT
C1	CAP,0402	0.5pF	MURATA
C2	CAP,0402	0.5pF	MURATA

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- PRELIMINARY: Data Sheets contain information regarding a product MA-COM Technical Solutions has under development. Performance is based on engineering tests. Specifications are typical.

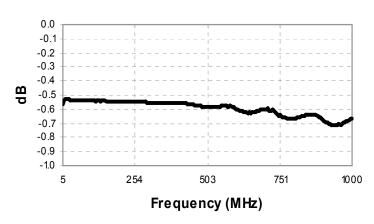
 Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commit- M/A-COM Technology Solutions Inc. and its affiliates reserve the right to make ment to produce in volume is not guaranteed.
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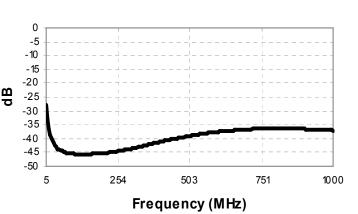
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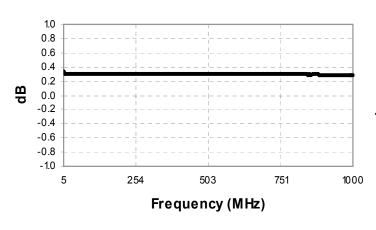
Insertion Loss:



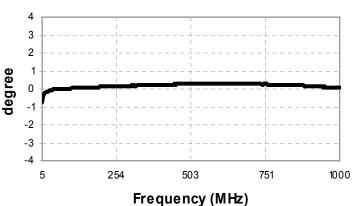
Isolation:



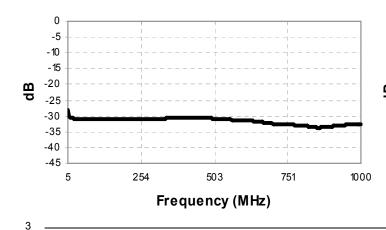
Amplitude Balance:



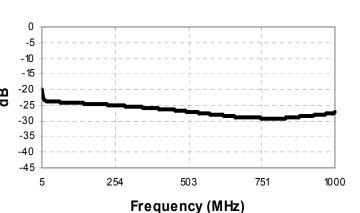
Phase Balance:



Return Loss:Input



Return Loss: Output



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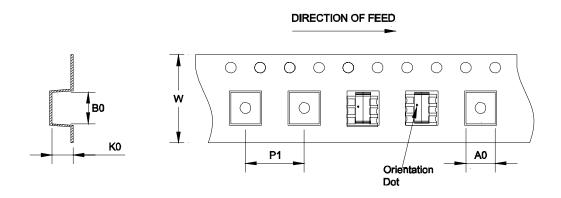
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Tape & Reel Information



Item	Dimension
Ao	4.55mm +/- 0.1mm
Во	4.75mm +/- 0.1mm
Ko	3.10mm +/- 0.1mm
W	12.00mm +/- 0.3mm
P1	8.00mm +/- 0.1mm

Ordering Information

ment to produce in volume is not guaranteed.

Part number	Description
MABA-010038-C209C0	2000 piece reel
MABA-010038-C209TB	Customer Test Board

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