

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

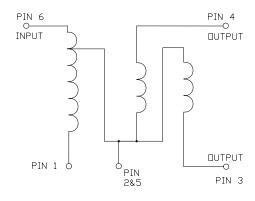
M/A-COM Technology Solutions MAPD-009918-C209C0 is a 2 way 0 degree RF power divider in a low cost, surface mount package. Ideally suited for high volume CATV/VSAT applications.



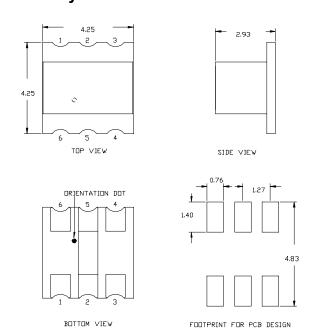
Pin Configuration

Pin No.	Function	
1	Ground	
2	External 0.5pF Capacitor	
3	Output Port 2	
4	Output Port 1	
5	External 0.5pF Capacitor	
6	Input	

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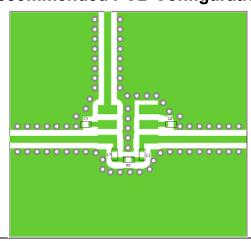
Electrical Specifications: $T_A = 25^{\circ}C$, 0dBm, $Z_0 = 75\Omega$, $P_{in} = 0dBm$

Parameter	Test Conditions	Units	Min	Тур	Max
Insertion Loss (Above 3dB)	5 - 50 MHz 50 - 500 MHz 500 - 1000 MHz	dB dB dB	- - -	0.53 0.57 0.72	0.7 0.8 1.0
Amplitude Balance	5 - 1000 MHz	dB	-	0.3	± 0.6
Phase Balance	5 - 1000 MHz	o	-	0.9	± 4.0
Input Return Loss	5 - 1000 MHz	dB	20	29	- - -
Output Return Loss	5 - 50 MHz 50 - 1000 MHz	dB dB	18 20	23 29	- - -
Isolation (between outputs)	5 - 50 MHz 50 - 1000MHz	dB dB	26 30	40 38	-

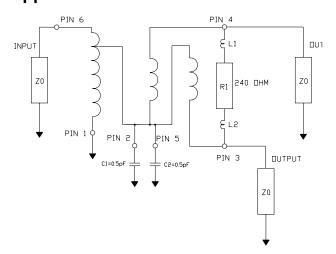
Recommended Maximum Ratings

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	8.2nH	COILCRAFT
L2	IND,0402	8.2nH	COILCRAFT
C1	CAP,0402	0.5pF	MURATA
C2	CAP,0402	0.5pF	MURATA

- ADVANCED: Data Sheets contain information regarding a product MA-COM Technical Solutions is considering for development. Performance is based on target specifications, simulated results, and/ or prototype measurements. Commitment to develop is not guaranteed.
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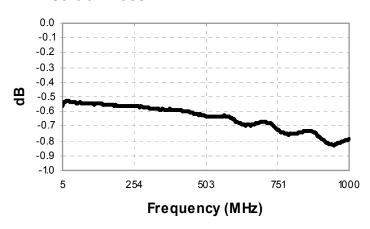
 Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commit- M/A-COM Technology Solutions Inc. and its affiliates reserve the right to make ment to produce in volume is not guaranteed.
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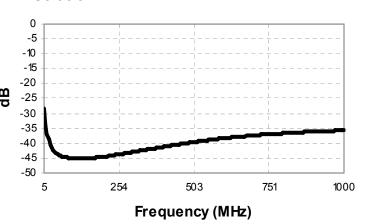
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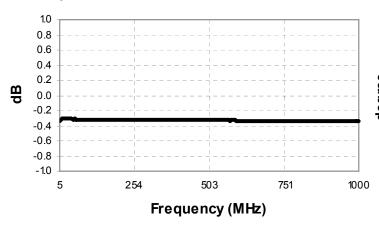
Insertion Loss:



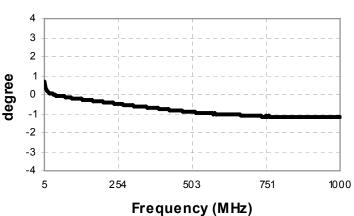
Isolation:



Amplitude Balance:

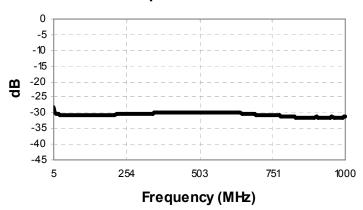


Phase Balance:

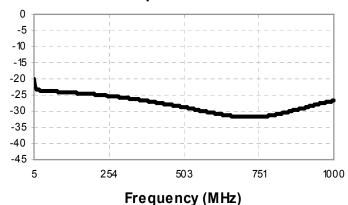


Return Loss: Input

ment to produce in volume is not guaranteed.



Return Loss: Output



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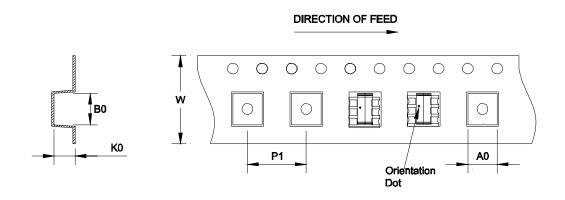
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Tape & Reel Information



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-009918-C209C0	2000 piece reel		
MABA-009918-C209TB	Customer Test Board		