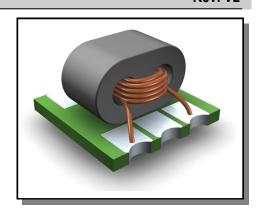


2 Way 0° Power Divider 5 - 1600 MHz

Rev. V2

Features

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



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

Parameter	Conditions	Units	Min	Тур	Max
Insertion Loss 1	5 - 500 MHz	dB	-	0.3	0.5
(pin6-pin4)	500 - 1600 MHz	dB	-	1.2	1.7
Insertion Loss 2	5 - 500 MHz	dB	-	0.5	0.7
(pin6-pin3)	500 - 1200 MHz	dB	-	1.1	1.4
,	1200 - 1600 MHz	dB	-	2.0	2.7
	5 - 500 MHz	dB	1	0.2	±0.3
Amplitude Balance	500 - 1200 MHz	dB	-	0.3	±0.6
	1200 - 1600 MHz	dB	-	0.7	±1.3
	5 - 870 MHz	o	-	0.7	±1.0
Phase Balance	870 - 1600 MHz	o	-	2.3	±5.5
Input Return Loss	5 - 500 MHz	dB	20	26	-
(pin6)	500 - 1000 MHz	dB	15	17	_
,	1000 - 1600 MHz	dB	9	12	-
Output Return Loss 1	5 - 870 MHz	dB	20	24	-
(pin4)	870 - 1600 MHz	dB	12	16	-
Output Return Loss 2	5 - 500 MHz	dB	20	25	-
. (pin3)	500 - 1000 MHz	dB	15	19	_
,	1000 - 1600 MHz	dB	11	13	-
Isolation	5 - 300 MHz	dB	30	34	-
(pin4-pin3)	300 - 1200MHz	dB	23	30	-
	1200 - 1600 MHz	dB	20	27	-

The image may not be representative of the final product

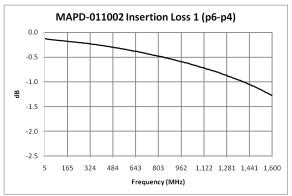
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 China Tel: +96.21.2407.1588
 Visit www.macomtech.com for additional data sheets and product information.

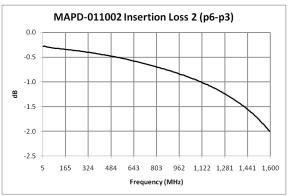


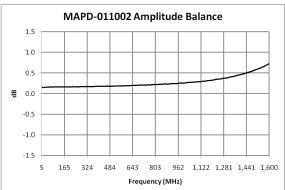
2 Way 0° Power Divider 5 - 1600 MHz

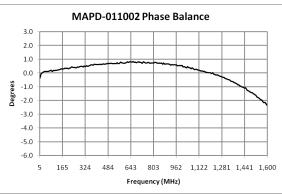
Rev. V2

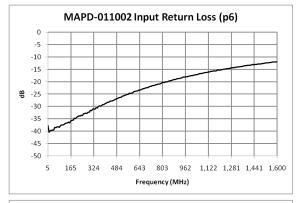
Electrical Specifications: $Z_0 = 75\Omega$, $T_A = 25$ °C, $P_{in} = 0$ dBm

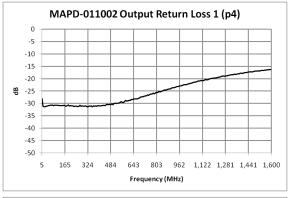


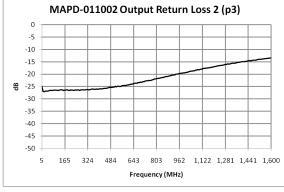


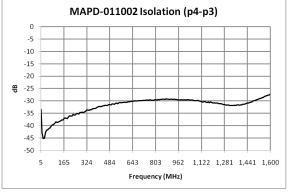












2

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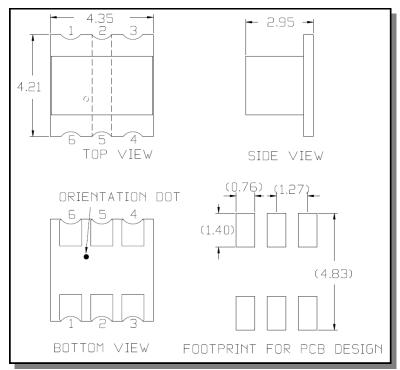
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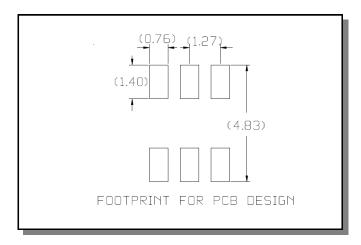
2 Way 0° Power Divider 5 - 1600 MHz

Rev. V2

Outline Drawing

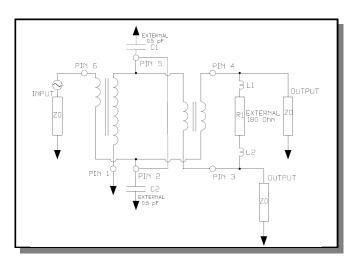


Recommended Footprint



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

Application Circuit



Component Bill of Materials:

Reference	Manufacturer & p/n	Value	
R1	Yageo RC0402FR-07180RL	180Ω	
L1	Cal-Chip Electronics GHF1005 82NJ-T	8.2nH	
L2	Cal-Chip Electronics GHF1005 82NJ-T	8.2nH	
C1	AVX 04025A0R5JAT4A	0.5pF	
C2	AVX 04025A0R5JAT4A	0.5pF	

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2 Way 0° Power Divider 5 - 1600 MHz

Rev. V2

Tape & Reel Information

Parameter	Units	Value	
Qty per reel	-	2000	
Reel Size	mm	330	
Tape Width	mm	12.00	
Pitch	mm	8.00	
Ao	mm	4.60	
Во	mm	4.60	
Ko	mm	3.30	
Orientation	-	F18	

Reference Application Note ANI-019 for orientation

Ordering Information

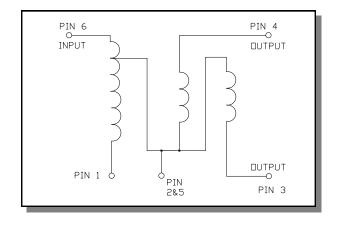
Part Number	Description
MAPD-011002	Tape & Reel
MAPD-011002-TB	Customer Evaluation Board

Recommended Maximum Ratings

Parameter	Units	Min	Max
Input Power	W		1
Internal Load Dissipation	W		0.125
Operating Temperature Range	°C	-40	+85

Full temperature plots available on request

Schematic



Pin Configuration

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

CO History

Rev	Date	Description	ECN NO.
V1	20-Jul-2011	Created datasheet	CO-001901
V2	22/12/11	Update tape and reel orientation	CO-002999

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