

2 Way 0° Power Divider 5 - 1600 MHz

Rev. V3

Features

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

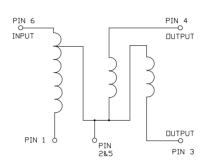
Ordering Information

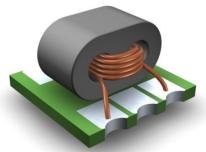
Part Number	Description
MAPD-011002	Tape & Reel
MAPD-011002-TB	Customer Evaluation Board

Tape & Reel Information

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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				

Functional Schematic





Pin Configuration³

	Function	
1	Ground	
2	External 0.5pF Capacitor	
3	Output 2	
4	Output 1	
5	External 0.5pF Capacitor	
6	Input	

^{*} Restrictions on Hazardous Substances, European Union Directive 2011/65/EU.

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

Parameter	Conditions	Units	Min	Тур	Max
Insertion Loss 1 (pin6-pin4)	5 - 500 MHz 500 - 1600 MHz	dB dB	-	0.3 1.2	0.5 1.7
Insertion Loss 2 (pin6-pin3)	5 - 500 MHz 500 - 1200 MHz 1200 - 1600 MHz	dB dB dB	- - -	0.5 1.1 2.0	0.7 1.4 2.7
Amplitude Balance	5 - 500 MHz 500 - 1200 MHz 1200 - 1600 MHz	dB dB dB	- - -	0.2 0.3 0.7	±0.3 ±0.6 ±1.3
Phase Balance	5 - 870 MHz 870 - 1600 MHz	0	-	0.7 2.3	±1.0 ±5.5
Input Return Loss (pin6)	5 - 500 MHz 500 - 1000 MHz 1000 - 1600 MHz	dB dB dB	20 15 9	26 17 12	1 1 1
Output Return Loss 1 (pin4)	5 - 870 MHz 870 - 1600 MHz	dB dB	20 12	24 16	-
Output Return Loss 2 (pin3)	5 - 500 MHz 500 - 1000 MHz 1000 - 1600 MHz	dB dB dB	20 15 11	25 19 13	- - -
Isolation (pin4-pin3)	5 - 300 MHz 300 - 1200MHz 1200 - 1600 MHz	dB dB dB	30 23 20	34 30 27	- - -

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

Handling Procedures

Please observe the following precautions to avoid damage:

Static Sensitivity

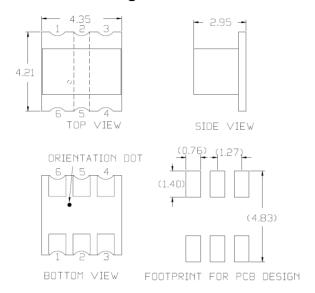
These electronic devices are sensitive to electrostatic discharge (ESD) and can be damaged by static electricity. Proper ESD control techniques should be used when handling these devices.



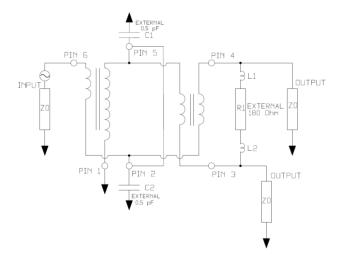
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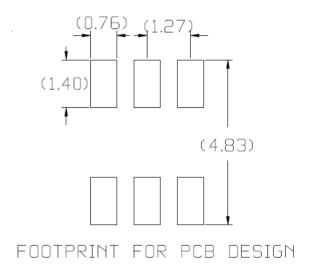
Outline Drawing



Application Circuit



Recommended Footprint

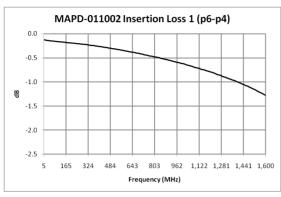


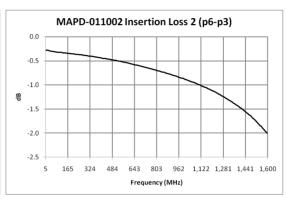


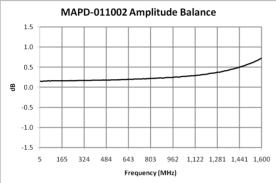
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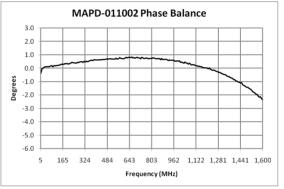
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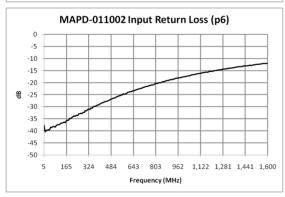
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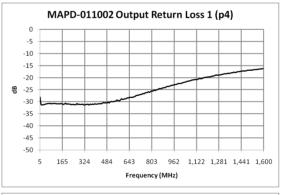


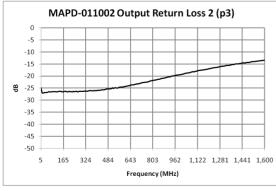


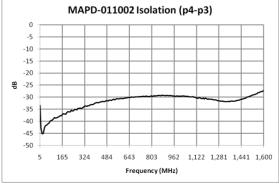












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