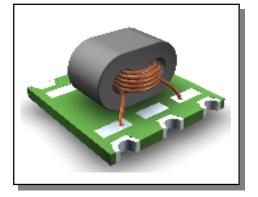
Power divider, 2 way, 0 degree 5 MHz - 1000 MHz

Features

- 2 way, 0 degree
- Surface mount
- Available on tape and reel
- ♦ 260°C reflow compatible
- RoHS Compliant and Pb free
- Excellent temperature stability



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

Parameter	Conditions	Units	Min	Тур	Max
Frequency Range		MHz	5		1000
Impedance		Ω		75	
Power split		dB		3	
Insertion Loss	5 - 40 MHz 40 - 400 MHz 400 - 500 MHz 500 - 1000 MHz	dB dB dB dB	- - - -	0.2 0.3 0.4 0.7	1.0 0.7 0.7 1.2
Amplitude Balance	5 - 40 MHz 40 - 400 MHz 400 - 500 MHz 500 - 1000 MHz	dB dB dB dB	- - -		±0.6 ±0.4 ±0.6 ±0.7
Phase Balance	5 - 40 MHz 40 - 400 MHz 400 - 500 MHz 500 - 1000 MHz	Degree Degree Degree Degree	- - -		±3.0 ±3.0 ±3.0 ±5.0
Input Return Loss	5 - 40 MHz 40 - 870 MHz 870 - 1000 MHz	dB dB dB	15 17 16	38 25 19	- - - -
Output Return Loss	5 - 40 MHz 40 - 870 MHz 870 - 1000 MHz	dB dB dB	14 15 13	29 21 15	- - - -
Isolation	5 - 40 MHz 40 - 400 MHz 400 - 500 MHz 500 - 1000 MHz	dB dB dB dB	19 19 16 10	36 30 29 25	- - - -

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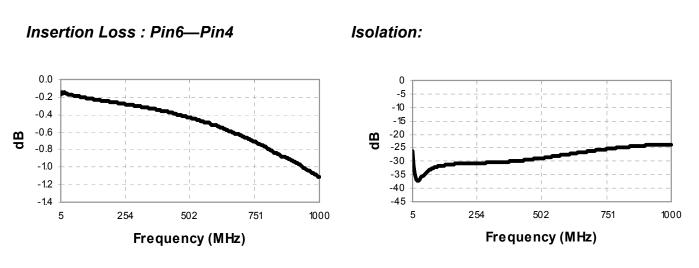


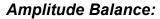
Rev. V2



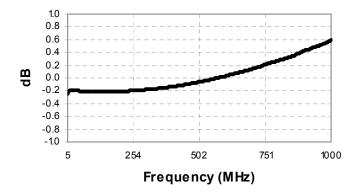
Power divider, 2 way, 0 degree 5 MHz - 1000 MHz

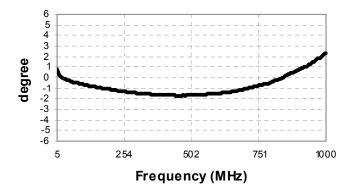
Rev. V2





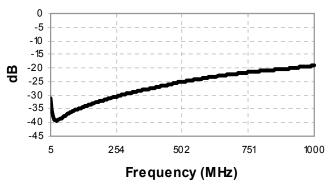
Phase Balance :

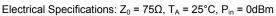






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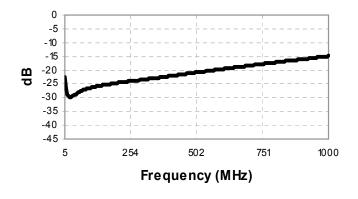


2

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Output Return loss:



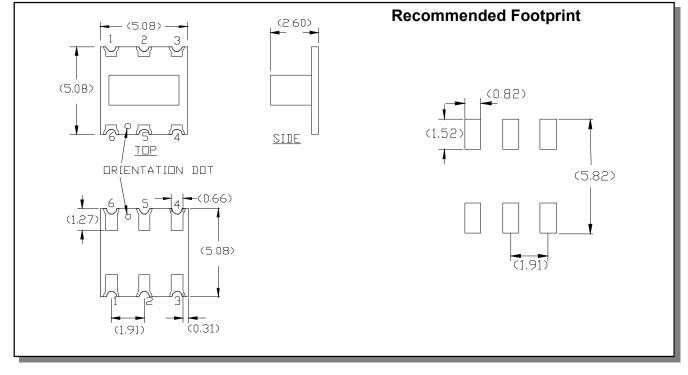
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Power divider, 2 way, 0 degree 5 MHz - 1000 MHz

3

Outline Drawing



1. Dimensions in mm.

- 2. Tolerance: ±0.2mm unless otherwise noted.
- 3. Model number and lot code are printed on the reel.
- 4. Finish: Electreless nickel immersion gold

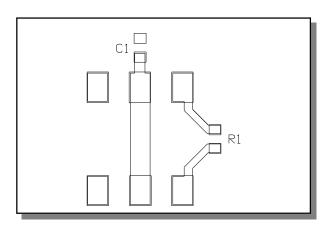
Pin Configuration

Pin No.	Function
1	Ground
2	Not connected
3	Output port 2
4	Output port 1
5	Not connected
6	Input

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Recommend PCB Layout



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Rev. V2



Power divider, 2 way, 0 degree 5 MHz - 1000 MHz

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	5.30
Во	mm	5.30
Ko	mm	2.70
Orientation	-	F2
Reference Application Note ANI-019 for orientation		

Ordering Information

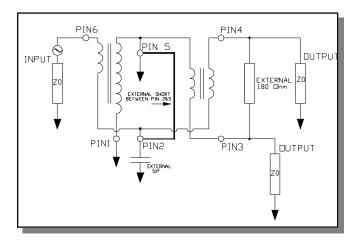
Part Number	Description
MAPD-010362-C20FA0	Tape & Reel
MAPD-010362-C20FTB	Customer Evaluation Board

Recommended Maximum Ratings

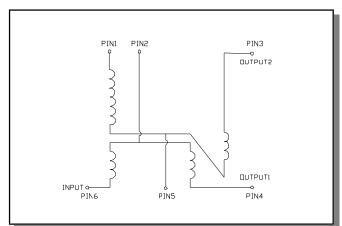
Parameter	Units	Min	Max
Input Power	mW		250
DC Current	mA		200
Operating Temperature Range	°C	-40	+85
Storage Temperature Range	°C	-55	+125

Full temperature plots available on request

Application Circuit



Schematic



ECO History

Rev	Date	Description	ECN NO.
V1	24 May 2010	Created datasheet	20100469
V2	22 July 2010	Corrected reel size to 2000	20100936

4

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