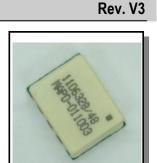
3 Way 0° Power Divider 30 - 1200 MHz

Features

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



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

Parameter	Conditions	Units	Min	Тур	Max
Insertion Loss 1* (pin8-pin1) Ref value –4.77	30 - 46 MHz 46 - 870 MHz 870 - 1002 MHz 1002 - 1200 MHz	dB dB dB dB		0.4 0.8 1.2 1.7	0.8 1.5 1.8 -
Insertion Loss 2* (pin8-pin4) Ref value –4.77	30 - 46 MHz 46 - 870 MHz 870 - 1002 MHz 1002 - 1200 MHz	dB dB dB dB		0.4 0.6 0.8 1.3	0.8 1.3 1.5 -
Insertion Loss 3* (pin8-pin5) Ref value –4.77	30 - 46 MHz 46 - 870 MHz 870 - 1002 MHz 1002 - 1200 MHz	dB dB dB dB		0.4 0.8 1.2 1.8	0.8 1.8 2.2 -
Input Return Loss * (pin8)	30 - 46 MHz 46 - 405 MHz 405 - 1002 MHz 1002 - 1200 MHz	dB dB dB dB	28 20 17.5 -	35 26 25 17	- - -
Output Return Loss 1 & 2* (pin1&4)	30 - 46 MHz 46 - 1002 MHz 1002 - 1200 MHz	dB dB dB	17 20 -	21 32 24	
Output Return Loss 3 (pin5) *	30 - 46 MHz 46 - 740 MHz 740 - 1002 MHz 1002 - 1200 MHz	dB dB dB dB	17 20 17 -	21 23 22 21	- - -
Isolation	30 - 46 MHz 46 - 870 MHz 870 - 1002 MHz 1002 - 1200 MHz	dB dB dB dB	20 20 18 -	27 25 35 22	- - -
Amplitude Balance	30 - 46 MHz 46 - 500 MHz 500 - 1002 MHz 1002 - 1200 MHz	dB dB dB dB		0.0 0.1 0.4 0.5	±0.2 ±0.5 ±1.0
Phase Balance	30 - 50 MHz 50 - 500 MHz 500 - 1002 MHz 1002 - 1200 MHz	0 0 0 0		0.4 1.0 2.7 2.8	±1.0 ±4.0 ±6.0 -

* Parameters screened in manufacturing

1

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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. Commitment to produce in volume is not guaranteed.

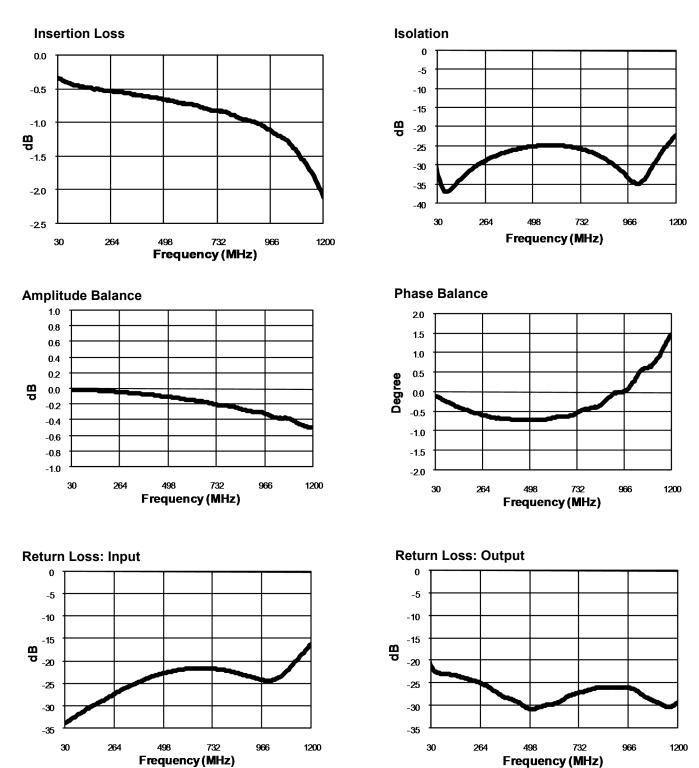
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3 Way 0° Power Divider 30 - 1200 MHz

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



2

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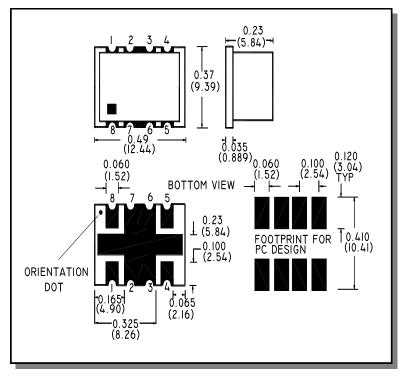
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Technology Solutions

Rev. V3

3 Way 0° Power Divider 30 - 1200 MHz

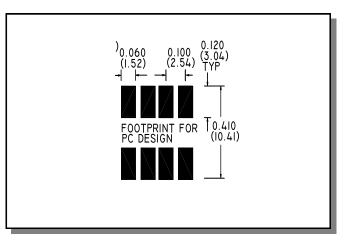
Outline Drawing





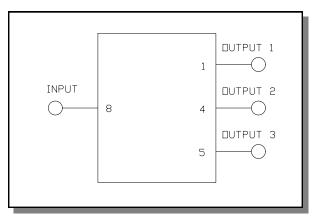
Rev. V3

Recommended Footprint



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

Schematic



Pin Configuration

Pin No.	Function	
1	Output 1	
2,3,6,7	Ground	
4	Output 2	
5	Output 3	
8	Input	

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³

3 Way 0° Power Divider 30 - 1200 MHz



Rev. V3

Tape & Reel Information

ltem	Dimension			
Ao	10.26mm +/-0.1mm			
Во	13.46mm +/-0.1mm			
Ко	6.10mm +/-0.1mm			
W	24.00mm +/-0.3mm			
P1	16.00mm +/-0.1mm			
Orientation	F47			
Reference Application Note ANI-019 for Orientation				

Ordering Information

Part Number	Description		
MAPD-011003	Tape & Reel		
MAPD-011003-TB	Customer Evaluation Board		

Recommended Maximum Ratings

Parameter	Units	Min	Max
RF Power	W		250mW
DC Current	А		30mA
Operating Temperature Range	°C	-40	+85

4

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