MAPD-011020



2 Way Power Divider 5 - 1200 MHz

Rev. V1

Features

- Surface mount
- 2 Way
- 0 Degree
- 75 Ohm
- Available on tape and reel
- RoHS compliant and lead free



Description

MACOM's MAPD-011020 is a 2 way 0° power divider in a low cost, surface mount package. Ideally suited for high volume broadband CATV applications.

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

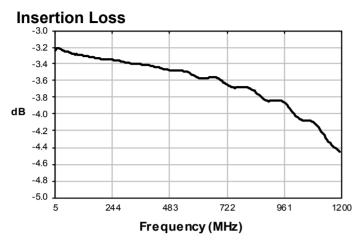
Parameter	Conditions	Units	Min	Тур	Max
Frequency Range		MHz	5		1200
Impedance		Ω		75	
Insertion Loss	5 - 500 MHz 500 - 870 MHz 870 - 1002 MHz 1002 - 1200 MHz	dB dB dB dB	- - -	0.4 0.7 0.9 1.2	0.6 1.0 1.3 1.9
Amplitude Balance	5 - 500 MHz 500 - 870 MHz 870 - 1002 MHz 1002 - 1200 MHz	dB dB dB dB	- - - -	0.0 0.0 0.0 0.01	±0.1 ±0.2 ±0.3 ±0.4
Phase Balance	5 - 500 MHz 500 - 870 MHz 870 - 1002 MHz 1002 - 1200 MHz	o o o	- - - -	0.0 0.6 1.5 2.2	±1.5 ±2.8 ±3.5 ±4.7
Input Return Loss	5 - 500 MHz 500 - 1002 MHz 1002 - 1200 MHz	dB dB dB	22 20 13	27 27 20	- - -
Output Return Loss	5 - 1002 MHz 1002 - 1200 MHz	dB dB	20 17	32.1 23.3	-
Isolation	5 - 870 MHz 870 - 1002 MHz 1002 - 1200 MHz	dB dB dB	- - -	32.3 23.0 20.0	20 19 17

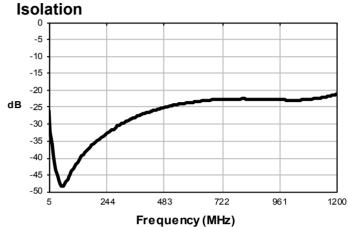
MAPD-011020



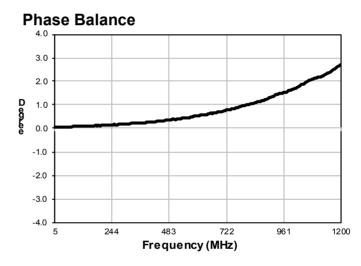


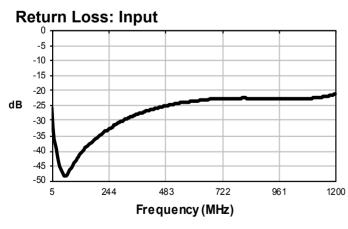
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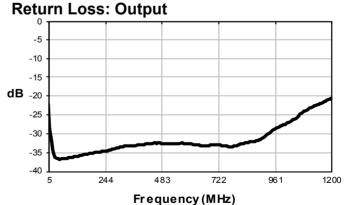




Amplitude Balance 0.5 0.4 0.3 0.2 0.1 dΒ 0.0 -0.1 -0.2 -0.3 -0.4 -0.5 244 483 961 1200 Frequency (MHz)







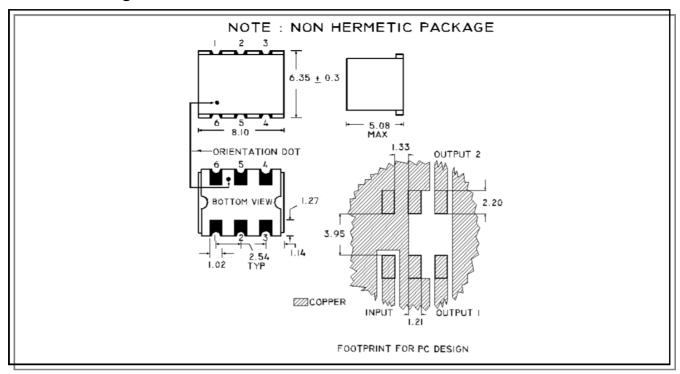
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Outline Drawing



- 1. Dimensions in mm.
- 2. Tolerance: ±0.2mm unless otherwise noted.
- 3. Model number and lot code are printed on the reel.
- 4. Finish: Electroless nickel immersion gold (ENIG)



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Tape & Reel Information

Parameter	Units	Value
Qty per reel	-	900
Reel Size	mm	330
Tape Width	mm	16.00
Pitch	mm	12.00
Ao	mm	7.01
Во	mm	8.61
Ko	mm	5.23
Orientation	-	F15

Reference Application Note ANI-019 for orientation

Ordering Information

Part Number	Description	
MAPD-011020	Tape & Reel	

Recommended Maximum Ratings

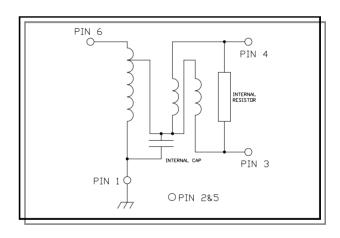
Parameter	Units	Min	Max
Input Power	W		1
DC Current	W		0.125
Operating Temperature Range	°C	-40	+85

Full temperature plots available on request

Pin Configuration

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

Schematic



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