2-Way 0° Power Divider 5 - 1000 MHz



MAPD-008108-C202C0

Rev. V5

Features

- Surface Mount, Hermetically Sealed
- 2 Way, 0 Degree
- 260°C Reflow Compatible
- RoHS Compliant & Pb Free.
- RoHS version of ESSMJ-2-12-75TR
- 75 Ω
- Available on Tape and Reel

Applications

• CATV / Broadband

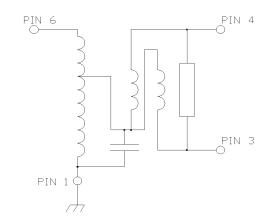
Description

The MAPD-008108-C202C0 is a 2 Way 0° Power Divider in a surface mount package.

Ordering Information

Part Number	Package	
MAPD-008108-C202C0	900 per reel	
MAPD-008108-C202TB	Customer Test Board	

Functional Schematic



Pin Configuration

Pin#	Function		
1	Ground		
2, 5	No Connection		
3	Output Port 2		
4	Output Port 1		
6	Input		

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Electrical Specifications: $T_A = +25$ °C, $Z_0 = 75 \Omega$

Parameter	Test Conditions	Units	Min.	Тур.	Max.
Insertion Loss	5 - 500 MHz 500 - 1000 MHz	dB	_	0.4 0.5	0.6 1.2
Isolation	5 - 600 MHz 600 - 1000 MHz	dB	20 17.5	35 30	_
Amplitude Unbalance	5 - 600 MHz 600 - 1000 MHz	dB	_	_	0.2 0.5
Phase Unbalance	5 - 100 MHz 100 - 500 MHz 500 - 1000 MHz	o	_	_	1.5 3.5 4.0
Output Return Loss	5 - 40 MHz 40 - 1000 MHz	dB	12 20	20 25	_
Input Return Loss	5 - 40 MHz 40 - 500 MHz 500 - 860 MHz 860 - 1000 MHz	dB	13.5 20 17 14	20 24 21 19	_
Insertion Loss Flatness	5 - 1000 MHz	dB	_	_	0.9

Absolute Maximum Ratings^{1,2}

Parameter	Absolute Maximum		
RF Power	1 Watt		
Internal Load Dissipation	0.125 Watt		
Pin Temp (10 sec.)	260°C		
Storage Temperature	-55°C to +100°C		
Operating Temperature	Temperature -40°C to +85°C		

^{1.} Exceeding any one or combination of these limits may cause permanent damage to this device.

MACOM does not recommend sustained operation near these survivability limits.

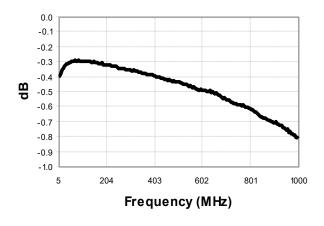


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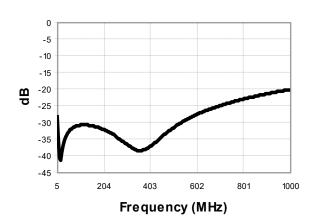
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Typical Performance Curves

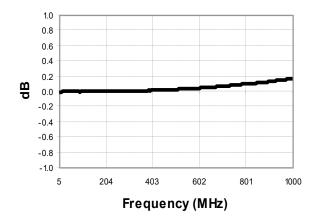
Insertion Loss



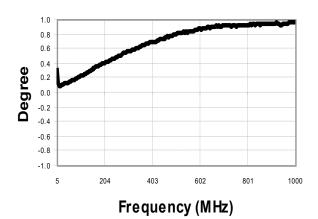
Isolation



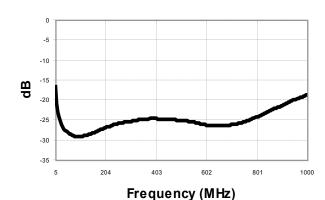
Amplitude Balance



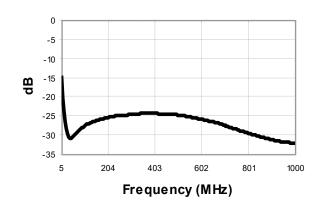
Phase Balance



Return Loss: Input



Return Loss: Output

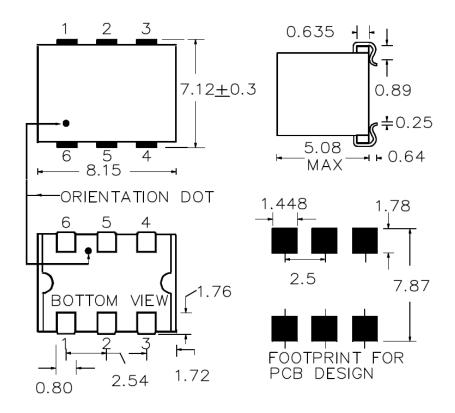




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Case Style SM-44



- 1. Dimensions in mm.
- 2. Tolerance: ±0.254mm unless otherwise noted.

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Rev. V

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