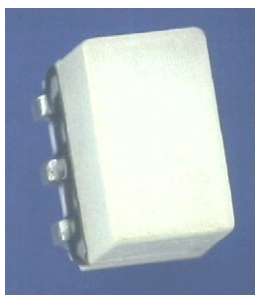


Features

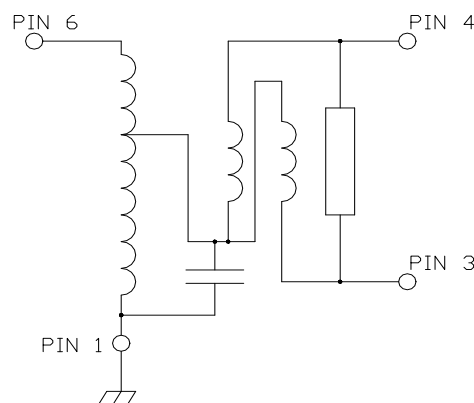
- Surface Mount, Hermetically Sealed
- 2 Way, 0 Degree
- 260°C Reflow Compatible
- RoHS Compliant & Pb Free.
- RoHS version of ESSMJ-2-12-75TR
- 75 Ohm
- Available on Tape and Reel

Description

The MAPD-008108-C202C0 is a 2 Way 0° Power Divider in a low cost, surface mount package. Ideally suited for high volume CATV/Broadband applications.



Functional Schematic



Pin Configuration

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

Ordering Information

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

2-Way 0° Power Divider 5 -1000 MHz

Rev. V4

Electrical Specifications: $T_A = +25^{\circ}\text{C}$, $Z_0 = 75\ \Omega$

Parameter	Test Conditions	Units	Min.	Typ.	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	°	—	—	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

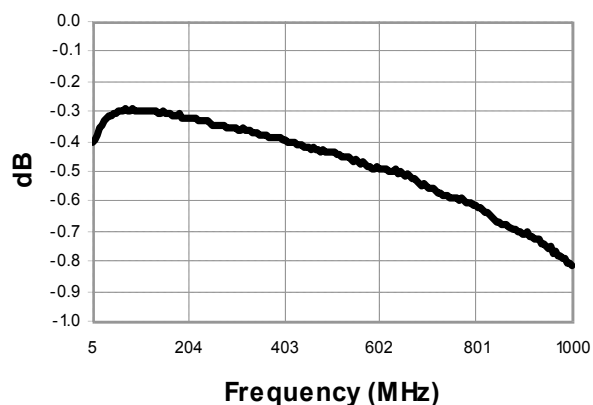
Absolute Maximum Ratings^{1,2}

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	-40°C to +85°C

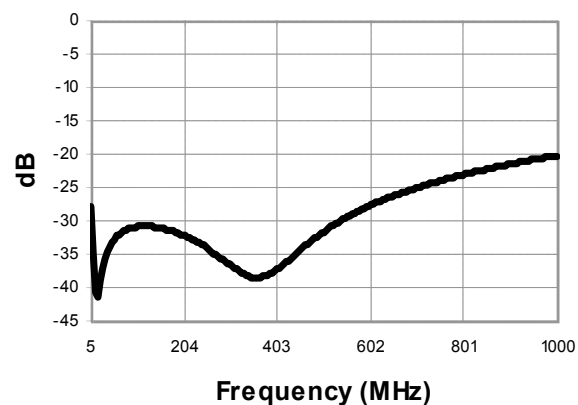
1. Exceeding any one or combination of these limits may cause permanent damage to this device.
2. MACOM does not recommend sustained operation near these survivability limits.

Typical Performance Curves

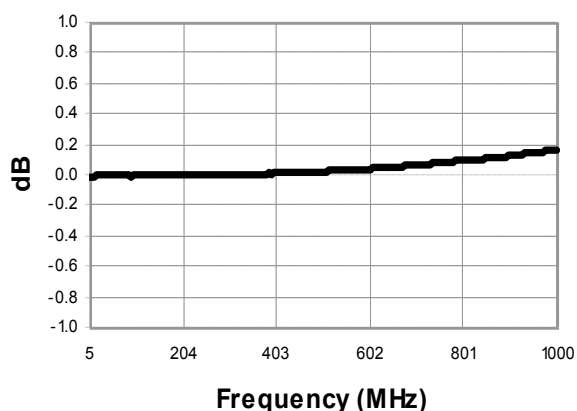
Insertion Loss



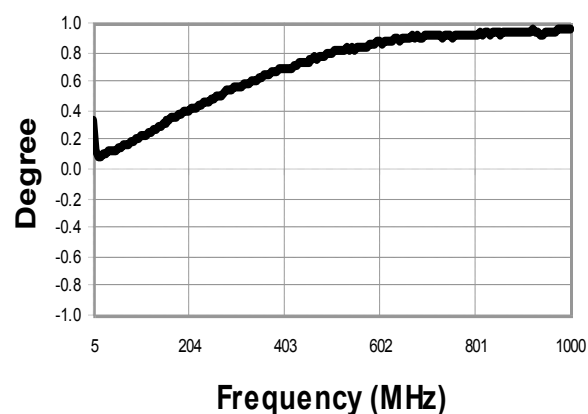
Isolation



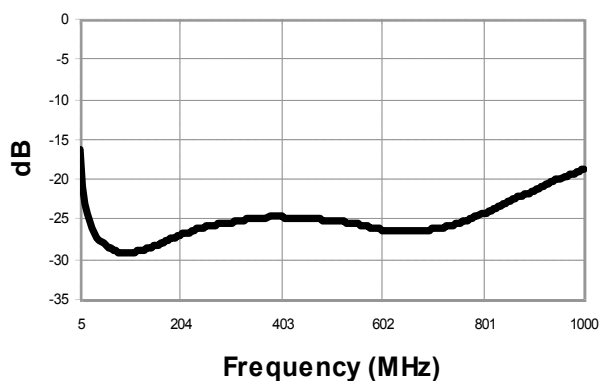
Amplitude Balance



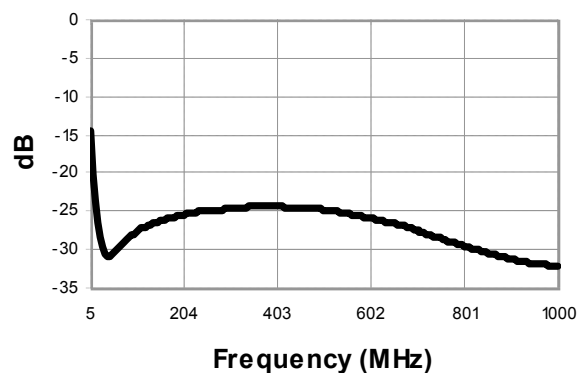
Phase Balance



Return Loss: Input



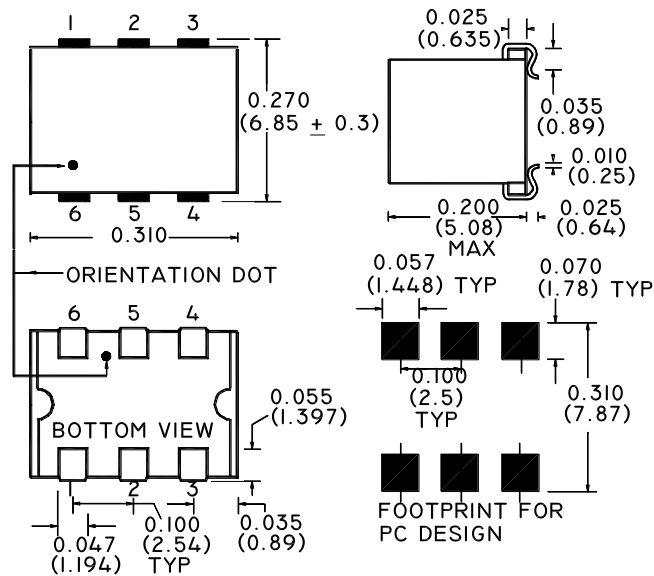
Return Loss: Output



2-Way 0° Power Divider 5 -1000 MHz

Rev. V4

Case Style SM-44



Dimensions in inches [mm] tolerance: x.xx ± 0.02, x.xxx ± 0.010

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