MAPD-009850-HW1268

E-Series 2-Way 90° Power Divider
112-168 MHz

Rev. V2

Features

- 2-way
- 90 Degree
- Surface Mount
- Tape and reel packaging available
- 260°C Reflow Compatible
- RoHS* compliant

Product Image



Description

M/A-COM's MAPD-009850-HW1268 is a RoHS Compliant 2-way 90˚ power divider in a low cost, surface mount package. Ideally suited for high volume cellular, wireless applications.
The MAPD-009850-HW1268 is available in a SM-89 surface mount package and is designed to be utilized in both RoHS and standard reflow profiles. Parts are packaged in tape & reel.

Ordering Information

Part Number	Package
MAPD-009850-HW1268	Tape and Reel (900 piece Reel)

Electrical Specifications: T_A = 25°C, Z_0 = 50Ω

Frequency Range	Test Conditions	Units	Min.	Typ.	Max.
Insertion Loss	112 - 168 MHz	dB	—	0.5	1.2
Isolation	112 - 168 MHz	dB	18	23	—
Amplitude Unbalance	112 - 168 MHz	dB	—	1.0	2.0
Phase Unbalance	112 - 168 MHz	0	—	1°	2°
Input Return Loss	112 - 168 MHz	dB	20	24	—

Absolute Maximum Ratings [1,2]

Parameter	Absolute Maximum
Impedance	50 Ohms nominal
RF Power	1 Watt
Internal Load Dissipation	0.125 Watt
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +125°C

Pin Configuration

Pin No.	Function
Input	1
Port 1	4
Port 2	6
External 50 Ohms	3
Not Connected	2,5

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

* Restrictions on Hazardous Substances, European Union Directive 2002/95/EC.

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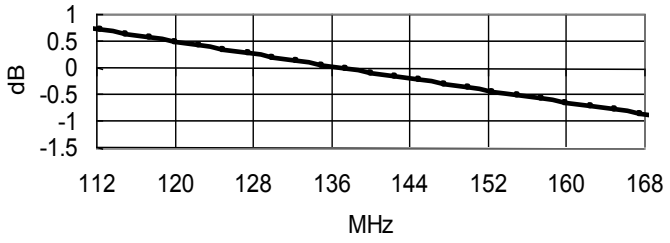
For further information and support please visit:
https://www.macom.com/support

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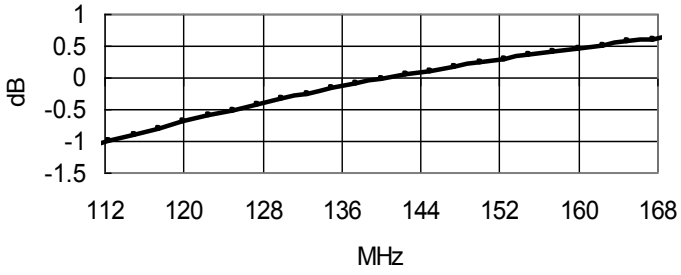
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Typical Performance Curves

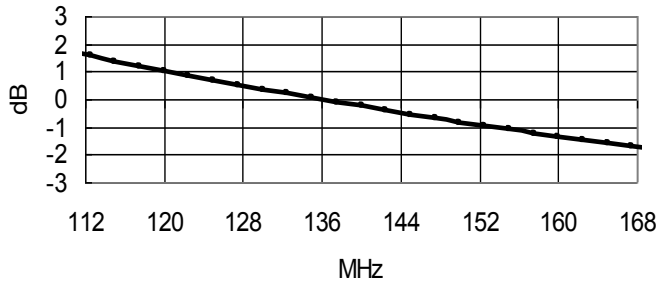
Insertion Loss Port 1



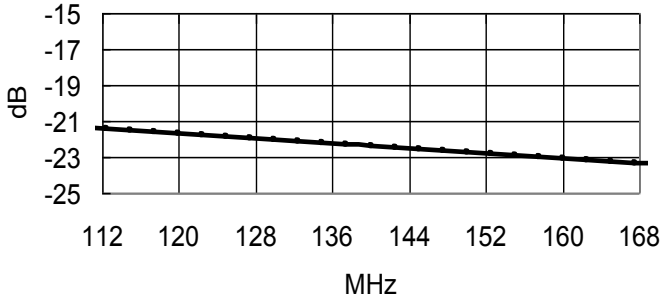
Insertion Loss port 2



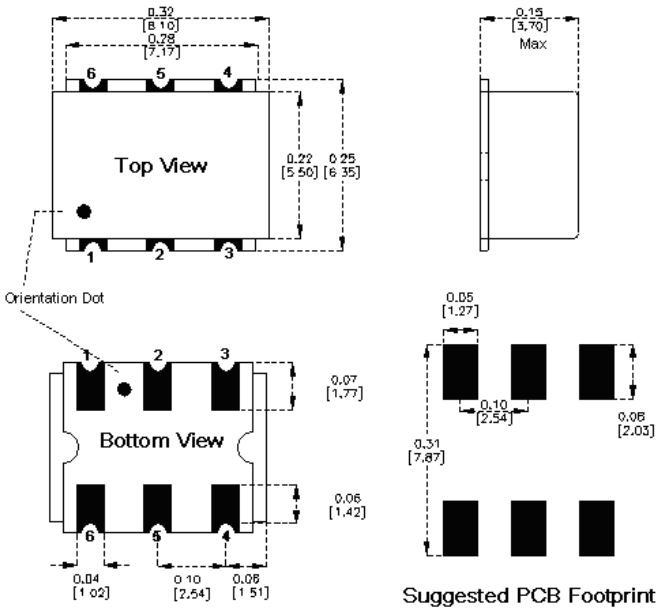
Amplitude Unbalance



Isolation

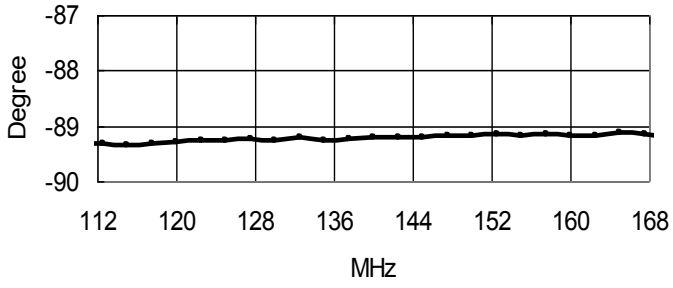


SM - 89 Package

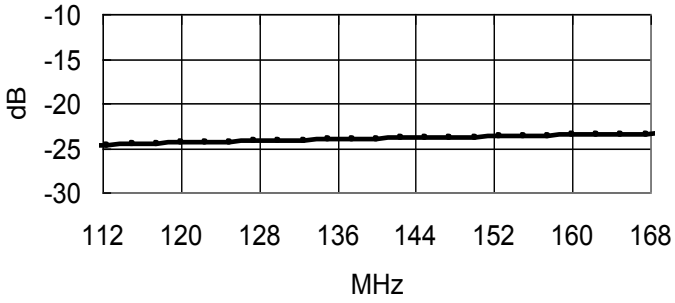


* Dimensions are inches (millimeters) ± 0.015 (0.38) unless otherwise specified.

Phase Unbalance



Input Return Loss



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