

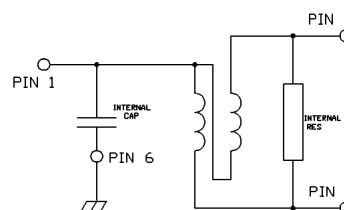
E-Series Surface Mount Power Divider 1 - 2700 MHz

Rev. V5

Features

- 2 Way 50 Ω , 0 Degree
- Surface Mount
- Available on Tape and Reel
- Broad Band performance
- RoHS Compliant and Pb Free
- 260°C Reflow Compatible
- Excellent Temperature Stability

Functional Schematic



Description

MAPD-008957-CT0012 is a RoHS compliant 2 Way 0° Power Divider in a low cost, surface mount package.

Pin Configuration

Pin No.	Function
1	Input
2	Not Used (GND)
3	Output Port1
4	Output Port2
5	Not Used (GND)
6	Ground

Ordering Information

Part Number	Package
MAPD-008957-CT0012	2000 piece reel

Electrical Specifications: $T_A = +25^\circ\text{C}$, $Z_0 = 50 \Omega$, $P_{in} = 0 \text{ dBm}$

Parameter	Test Frequency (MHz)	Units	Min.	Typ.	Max.
Insertion Loss (Above 3 dB)	1 - 1350	dB	—	0.6	1.3
	1350 - 2700			1.2	2.5
Isolation	1 - 50	dB	—	12.5	9
	50 - 200			14.7	12
	200 - 2700			12.1	10
Amplitude Balance	1 - 540	dB	—	0.01	± 0.5
	540 - 1200			0.5	± 1.0
	1200 - 1890			0.7	± 1.5
	1890 - 2700			1.1	± 2.5
Phase Balance	1 - 1500	deg.	—	1.0	± 4
	1500 - 2700			2.3	± 8
Input Return Loss	1 - 1200	dB	7	9.5	—
	1200 - 1800		10	14.2	
	1800 - 2400		13	20.3	
	2400 - 2700		10	16.8	
Output Return Loss (Pin 3)	1 - 1500	dB	13	16	—
	1500 - 2700		10	14	
Output Return Loss (Pin 4)	1 - 2700	dB	17	20	—

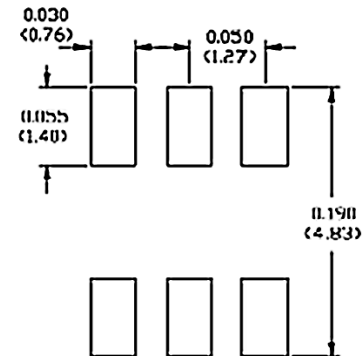
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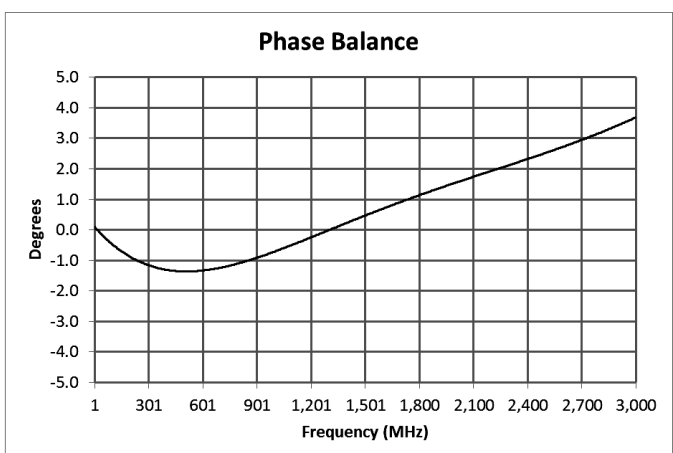
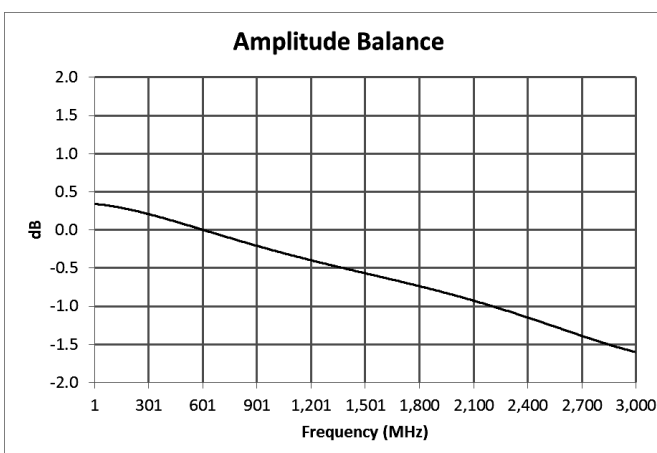
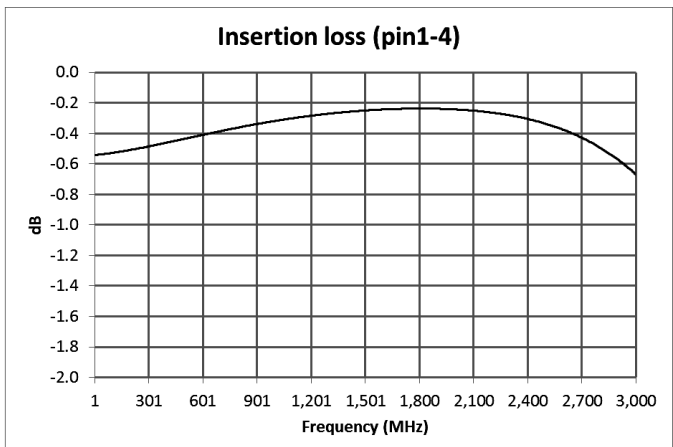
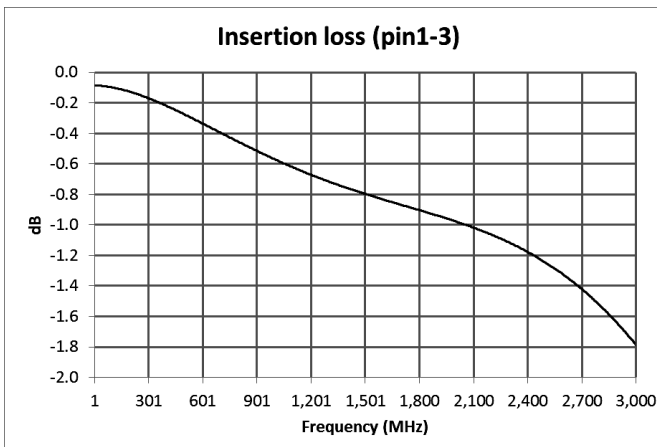
Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Power	1 W
Internal Load Dissipation	50 mW
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +125°C

PCB Layout

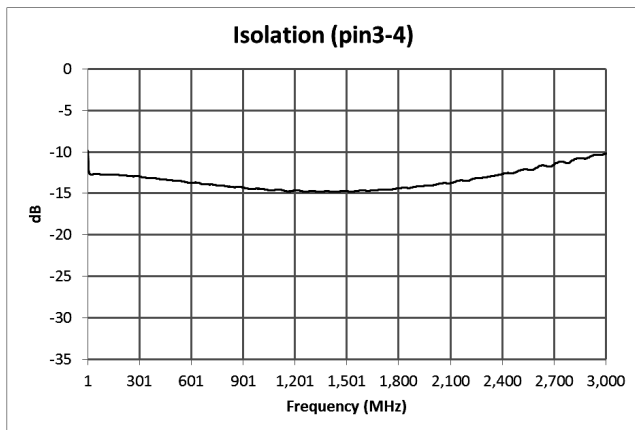
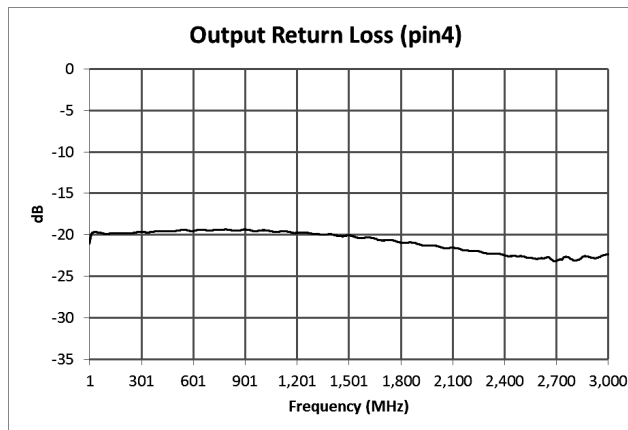
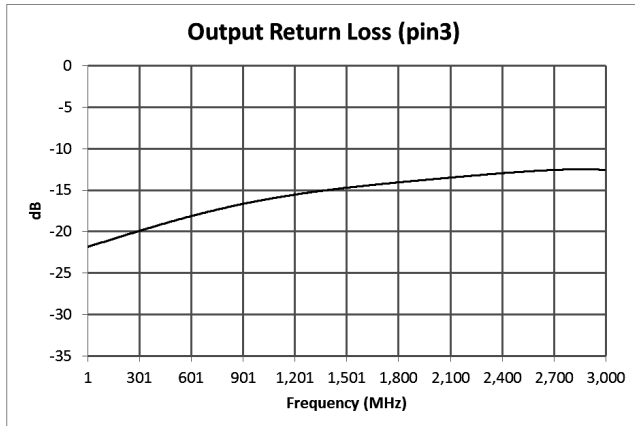
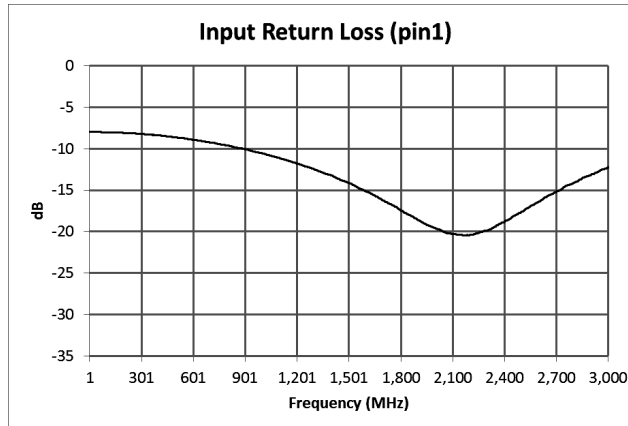


Typical Performance Curves

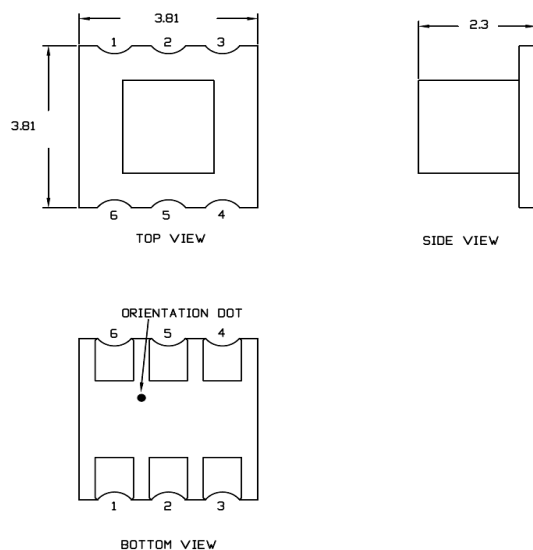


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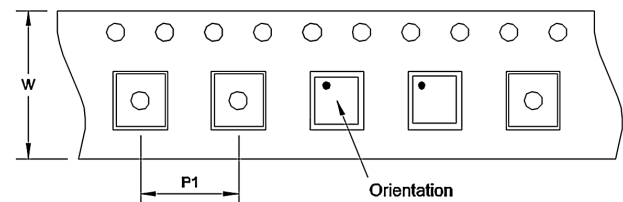


Outline Drawing



Dimensions in mm.
Tolerance: ± 0.2 mm unless otherwise noted.

Carrier Tape Orientation



Tape & Reel Information

Parameter	Units	Value
Qty per reel	-	2000
Reel Size	mm	330
Tape Width	mm	12.00
Pitch	mm	8.00
Orientation	-	F18
Reference Application Note ANI-019 for orientation		

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