

# E-Series Surface Mount Power Divider 1 - 2700 MHz

Rev. V4

#### **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

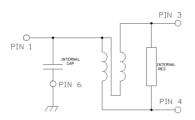
#### **Description**

MAPD-008957-CT0012 is a RoHS compliant 2 Way  $0^{\circ}$  Power Divider in a low cost, surface mount package.

#### **Ordering Information**

Part Number	Package
MAPD-008957-CT0012	2000 piece reel

#### **Functional Schematic**





#### **Pin Configuration**

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

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

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

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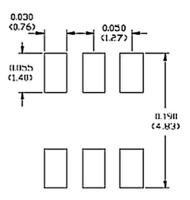
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#### **Absolute Maximum Ratings**

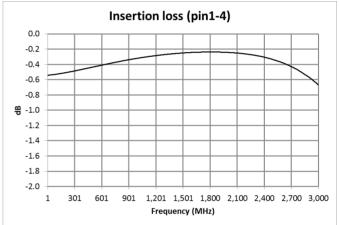
Parameter	Absolute Maximum
RF Power	1 W
Internal Load Dissipation	50 mA
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +125°C

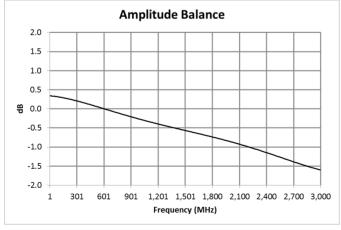
#### **PCB Layout**

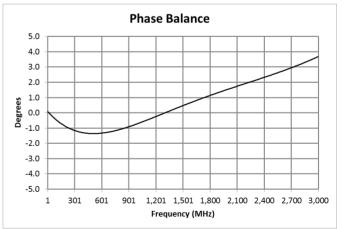


### **Typical Performance Curves**





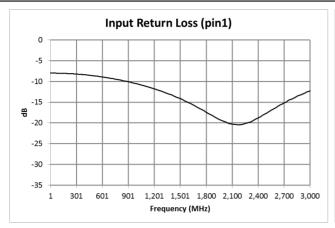


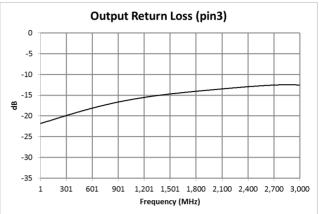


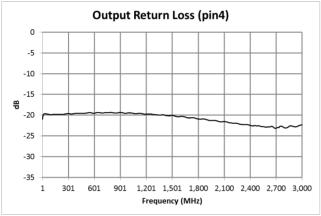


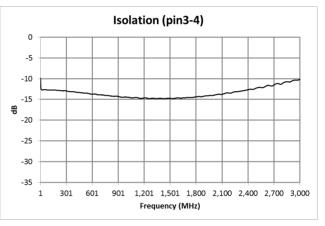
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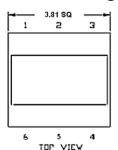




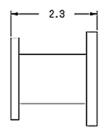




#### **Outline Drawing**

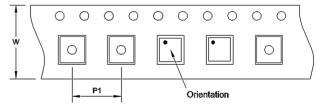


ORIENTATION DOT





### **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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