

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

Rev. V2

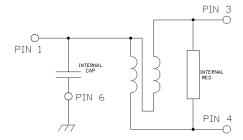
#### **Features**

- 2 Way 50Ohm
- Surface Mount
- 0 Degree
- **Broad Band performance**

## Description

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

#### **Schematic**



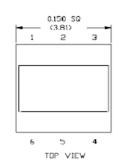
## **Product Image**

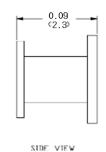


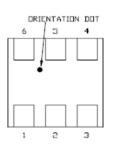
## **Pin Configuration**

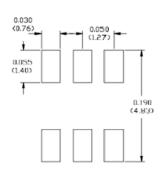
Function	
Input	
Not Used (GND)	
Output Port1	
Output Port2	
Not Used (GND)	
Ground	

## **Component Dimensions**









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

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• India Tel: +91.80.43537383 Visit www.macomtech.com for additional data sheets and product information.

• China Tel: +86.21.2407.1588

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Electrical Specifications:  $T_A = 25$ °C,  $Z_0 = 50\Omega$ 

Parameter	Frequency (MHz)	Units	Min	Тур	Max
Insertion Loss	1 - 1800	dB	_	0.8	1.3
(Above 3dB)	1800-2700	dB		1.3	2.0
Isolation	1 - 2000	dB	9	10	20
	2000-2400	dB	13	20	30
	2400-2700	dB	10	11	—
Amplitude Balance	1 - 2500 2500-2700	dB dB	_	0.5 1.0	1.0 1.5
Phase Balance	1 - 2700	deg	_	2	8
Input Return Loss	1 - 1200	dB	9	10	
	1200-2400	dB	12	15	25
	2400-2700	dB	6	10	12
Output Return Loss	1 - 1800	dB	20	25	32
	1800-2700	dB	16	23	32

## **Absolute Maximum Ratings** <sup>1,2</sup>

Parameter	Absolute Maximum
RF Power	250 mW
Internal Load Dissipation	50 mA
Operating Temperature	-40°C to +80°C
Storage Temperature	-55°C to +125°C

<sup>1.</sup> Exceeding any one or combination of these limits may cause permanent damage to this device.

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<sup>2.</sup> M/A-COM does not recommend sustained operation near these survivability limits.

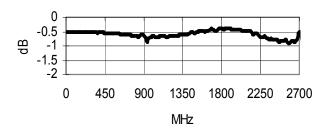


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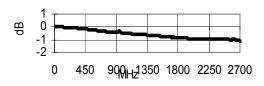
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## **Typical Performance Curves**

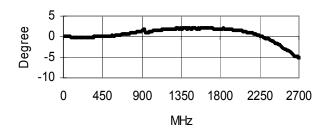
#### **Insertion Loss**



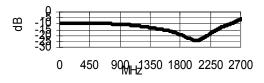
## Amplitude Unbalance



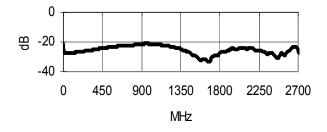
#### Phase Unbalance



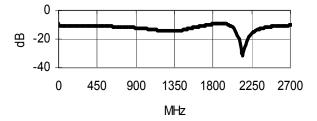
## Input Return Loss



## **Output Return Loss**



#### Isolation



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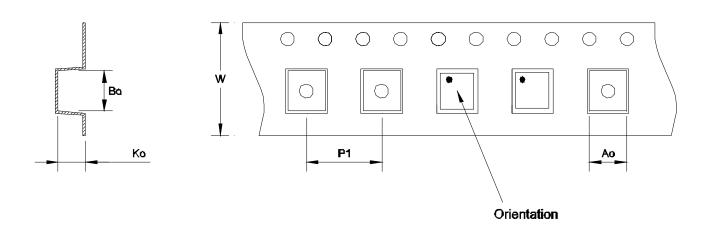


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**Tape & Reel Information** 

## **DIRECTION OF FEED**



Item	Dimension
Ao	4.0mm +/-0.1mm
Во	4.1mm +/-0.1mm
Ko	2.7mm +/-0.1mm
W	12.00mm +/-0.3mm
P1	8.00mm +/-0.1mm

#### **Ordering Information**

	Part Number	Package
MA	PD-008957-CT0012	Tape and Reel (2000 piece Reel)

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