MAPD-008957-CT0012

E-Series Surface Mount Power Divider 1-2700 MHz

Features

- 2 Way 500hm
- · 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

PIN 3 С С PIN 1 INTERNAL _ CAP NTERNAL RES PIN 6 PIN 4

Product Image

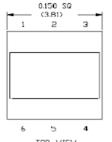


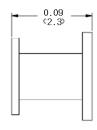
Pin Configuration

1

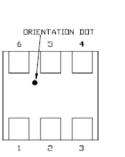
Pin No.	Function	
1	Input	
2	Not Used (GND)	
3	Output Port1	
4	Output Port2	
5	Not Used (GND)	
6	Ground	

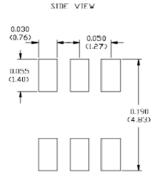
Component Dimensions











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

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- North America Tel: 800.366.2266 Europe Tel: +353.21.244.6400 • India Tel: +91.80.43537383 • China Tel: +86.21.2407.1588
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Rev. V1

MAPD-008957-CT0012



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Rev. V1

Electrical Specifications: $T_A = 25^{\circ}C$, $Z_0 = 50\Omega$

Parameter	Frequency (MHz)	Units	Min	Тур	Мах
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 ^{1,2}

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

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

 M/A-COM does not recommend sustained operation near these survivability limits.

2

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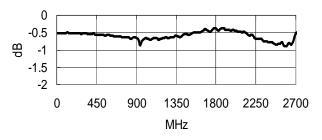


E-Series Surface Mount Power Divider 1-2700 MHz

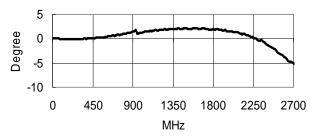
Rev. V1

Typical Performance Curves

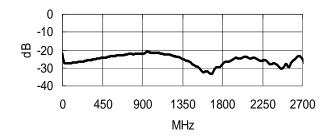
Insertion Loss



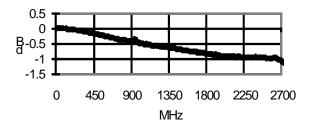
Phase Unbalance



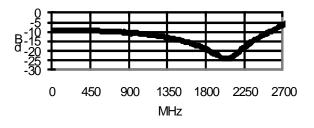
Output Return Loss



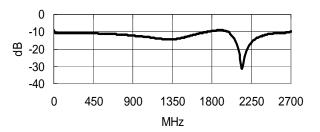
Amplitude Unbalance



Input Return Loss



Isolation



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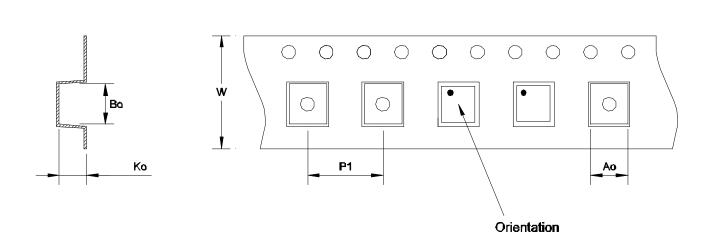


Technology Solutions

E-Series Surface Mount Power Divider 1-2700 MHz

Rev. V1

Tape & Reel Information



DIRECTION OF FEED

ltem	Dimension
Ao	4.00mm +/-0.1mm
Во	4.00mm +/-0.1mm
Ko	2.9mm +/-0.1mm
W	12.00mm +/-0.3mm
P1	8.00mm +/-0.1mm

Ordering Information

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

4

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