

# E-Series 2-Way 0° Power Divider 5-1000 MHz

MACPES0026  
V2

## Features

## Features

- 2 Way
- 0 Degree
- Surface Mount
- Available on Tape and Reel. Reel quantity 900

## Description

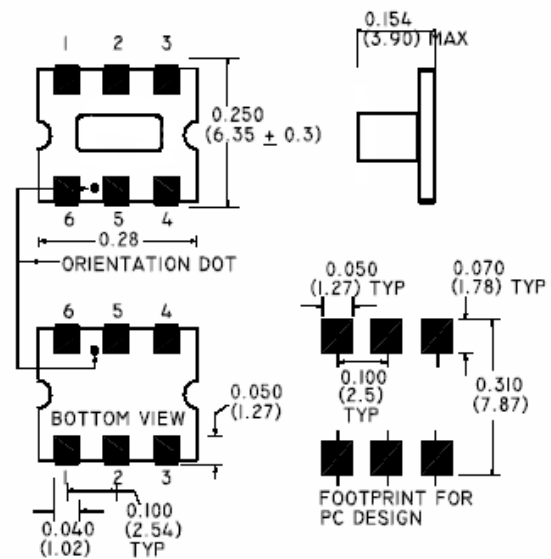
M/A-COM's MACPES0026 is a 2 Way 0° Power Divider in a low cost, surface mount package. Ideally suited for high volume cellular and wireless and CATV applications. An external 160 Ohm chip resistor is required with this part.

## Pin Configuration

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

## Case Style:

### SM-135 Package



Dimensions in inches [mm] Tolerance: .xx ± .02, .xxx ± .010

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

Parameter	Absolute Maximum
Max Power Rating	1 Watt
Internal Load Dissipation	0.125 Watt
Pin Temp (10 sec)	260°C
Storage Temp.	-55°C to 100°C

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.

Note: Reference Application Note **M513** for reel size information.

## Ordering Information

Part Number	Package
MACPES0026TR	900 piece reel

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

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- North America Tel: 800.366.2266
- Europe Tel: +353.21.244.6400
- India Tel: +91.80.4155721
- China Tel: +86.21.2407.1588

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## Electrical Specifications @25°C

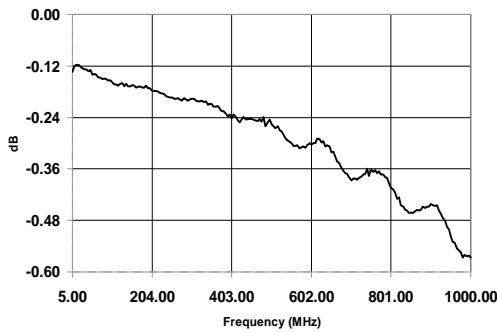
Parameter	Units	Typical	Minimum	Maximum
Frequency Range	5 - 1000	MHz	—	—
Insertion Loss	5 - 40 MHz	dB	0.6	1.0
	40 - 400 MHz	dB	0.6	0.8
	400 - 500 MHz	dB	0.7	0.8
	500-1000 MHz	dB	0.8	1.0
Isolation	5 - 40 MHz	dB	26	19
	40 - 400 MHz	dB	26	19
	400 - 500 MHz	dB	21	16
	500-1000 MHz	dB	17	10
Amplitude Unbalance	5 - 40 MHz	dB	—	0.6
	40 - 400 MHz	dB	—	0.4
	400 - 500 MHz	dB	—	0.6
	500-1000 MHz	dB	—	0.6
Phase Unbalance	5 - 40 MHz	°	—	3.0°
	40 - 400 MHz	°	—	3.0°
	400 - 500 MHz	°	—	3.0°
	500-1000 MHz	°	—	5.0°
Output Return Loss	5 - 40 MHz	dB	20	14
	40 - 870 MHz	dB	24	16
	40 - 1000 MHz	dB	24	16
Input Return Loss	5 - 40 MHz	dB	20	15
	40 - 870 MHz	dB	22	17
	40 - 1000 MHz	dB	22	16

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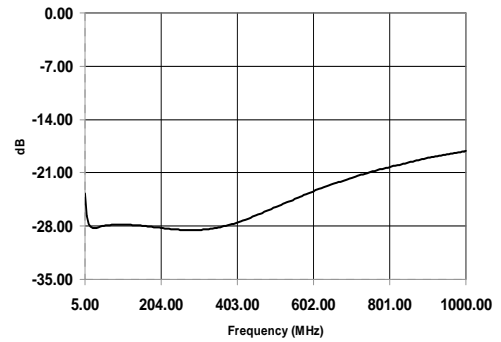
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## Typical Performance @ +25°C

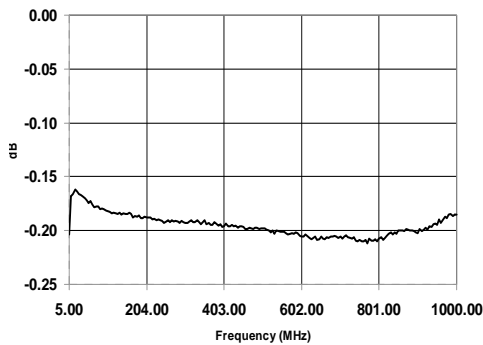
Insertion Loss



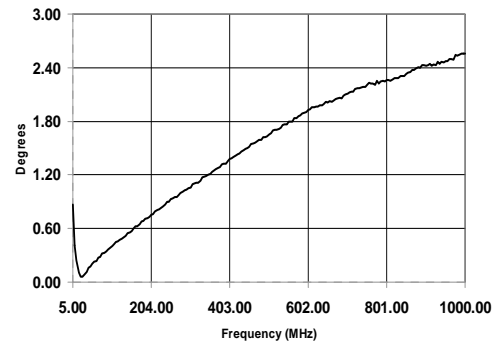
Isolation



Amplitude Unbalance



Phase Unbalance



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