

## Features

- 2 Way 0 Degree
- Surface mount
- Available on tape and reel
- 260° reflow compatible
- RoHS compliant and Pb free



## Description

MACPES0026 is a 2 Way 0° power divider in a low cost, surface mount package. Ideally suited for high volume cellular, wireless and CATV applications. An external 160 Ohm chip resistor is required with this part.

## Ordering Information

Part Number	Package
MACPES0026TR	900 piece reel

## Pin Configuration

Pin No.	Function
1	Ground
2, 5	No Connection
3	Port 2
4	Port 1
6	Input

## Electrical Specifications: Freq. = 5 - 1000 MHz, T<sub>A</sub> = 25°C

Parameter	Test Frequency (MHz)	Units	Min.	Typ.	Max.
Insertion Loss	5 - 40	dB	0.6	—	1.0
	40 - 400		0.6		0.8
	400 - 500		0.7		0.8
	500 - 1000		0.8		1.0
Isolation	5 - 40	dB	26	19	—
	40 - 400		26	19	
	400 - 500		21	16	
	500 - 1000		17	10	
Amplitude & Unbalance	5 - 40	dB	—	—	0.6
	40 - 400				0.4
	400 - 500				0.6
	500 - 1000				0.6
Phase Unbalance	5 - 40	°	—	—	3
	40 - 400				3
	400 - 500				3
	500 - 1000				5
Output Return Loss	5 - 40	dB	20	14	—
	40 - 870		24	16	
	40 - 1000		24	16	
Input Return Loss	5 - 40	dB	20	15	—
	40 - 870		22	17	
	40 - 1000		22	16	

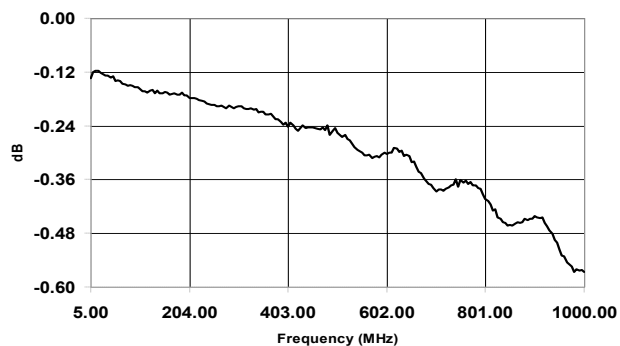
### Recommended Maximum Ratings<sup>1,2</sup>

Parameter	Absolute Maximum
Input Power	1 W
Internal Load Dissipation	0.125 W
Operating Temperature Range	-40°C to +85°C
Storage Temperature	-55°C to +100°C
Soldering Temperature	260°C for 10 sec.

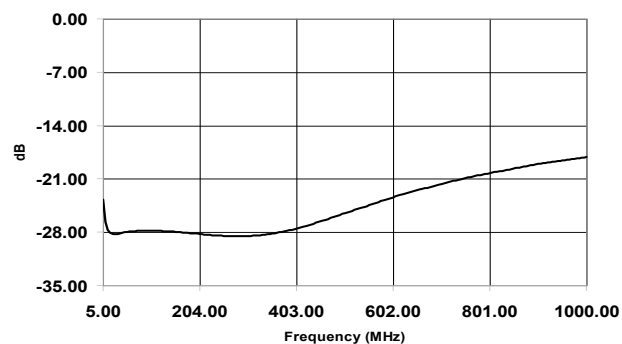
1. Exceeding any one or combination of these limits may cause permanent damage to this device.
2. MACOM does not recommend sustained operation near these survivability limits.

### Typical Performance Curves: T<sub>A</sub> = 25°C

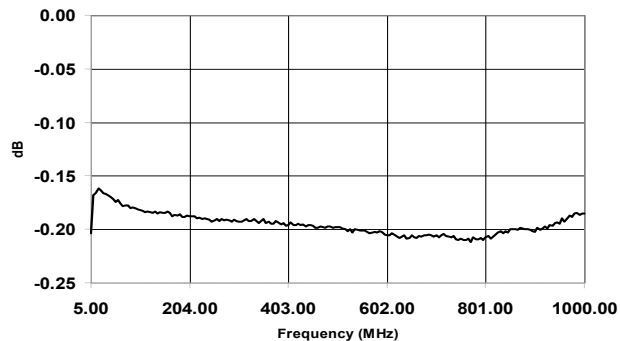
#### Insertion Loss



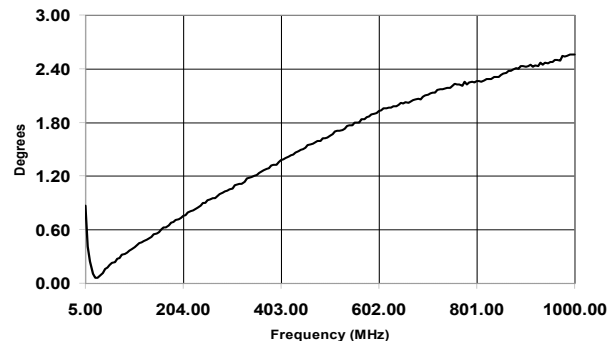
#### Isolation



#### Amplitude Unbalance

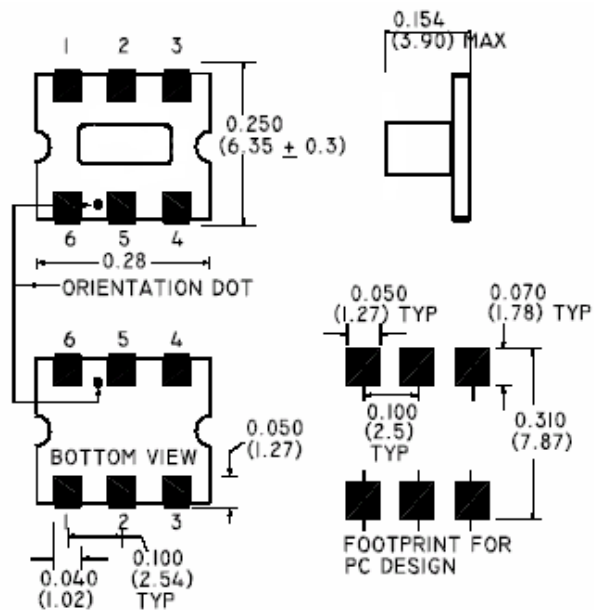


#### Phase Unbalance



Full temperature plots available on request

## Outline Drawing, SM-135



1. Dimensions in inches [mm].
2. Tolerance: .xx ±0.2 mm, .xxx ±0.01 mm.

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