

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_A = 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	

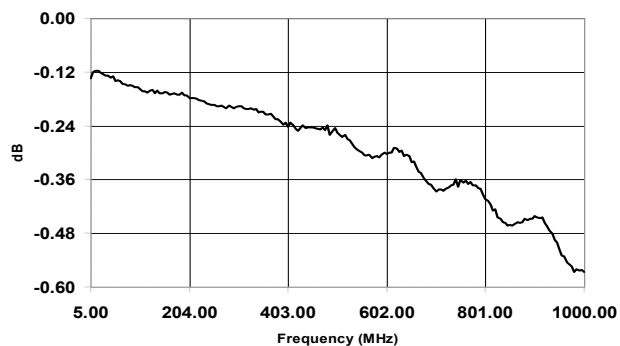
Recommended Maximum Ratings^{1,2}

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.

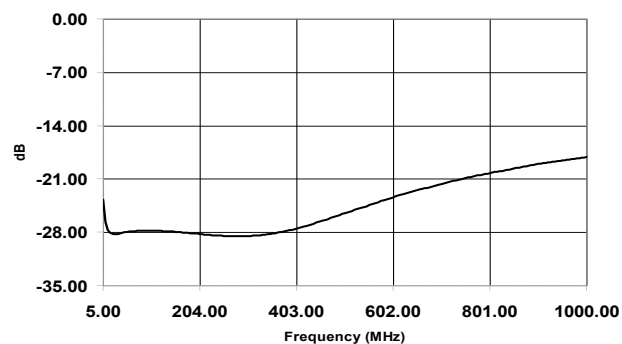
1. Exceeding any one or combination of these limits may cause permanent damage to this device.
2. MACOM does not recommend sustained operation near these survivability limits.

Typical Performance Curves: $T_A = 25^\circ\text{C}$

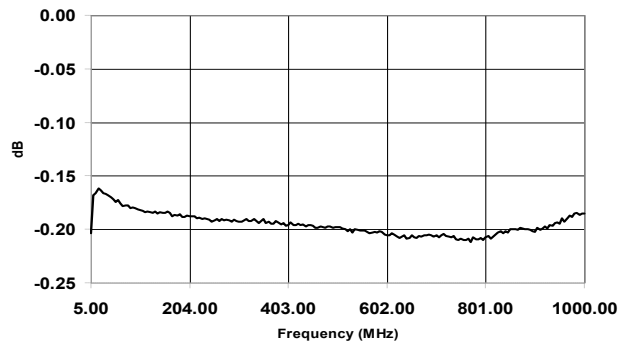
Insertion Loss



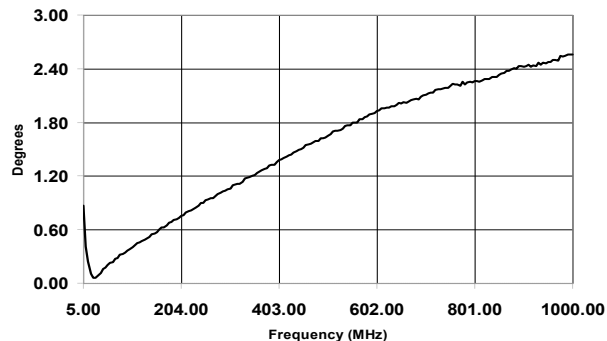
Isolation



Amplitude Unbalance

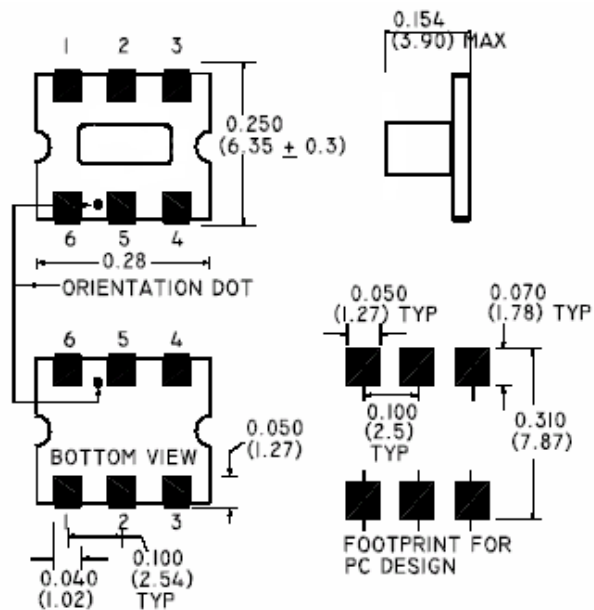


Phase Unbalance



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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