

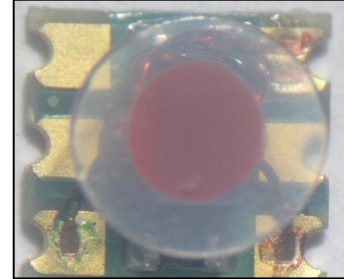
Features

- Surface Mount
- 2 Way 0 degree
- 260°C Reflow Compatible
- RoHS Compliant and Pb free
- RoHS version of MAPDCT0012
- Available on Tape and Reel

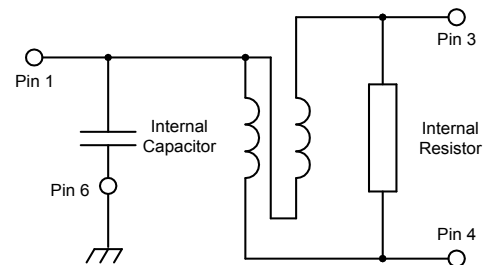
Description

The MAPDCT0026 is 2 way 0 degree RF power divider in a low cost, surface mount package.

Ideally suited for high volume CATV & VSAT applications.



Functional Schematic



Ordering Information^{1,2}

Part Number	Package
MAPDCT0026TR	2000 piece reel
MAPD-007996-CT26TB	Customer Test Board

1. Reference Application Note M513 for reel size information.
2. All sample boards include x loose parts.

Pin Configuration

Pin No.	Function
1	Input
2	Not connected (ground)
3	Output 1
4	Output 2
5	Not connected (ground)
6	Ground

2 Way 0° Power Divider 5 - 2400 MHz

Rev. V3

Electrical Specifications: $T_A = +25^\circ\text{C}$, $Z_0 = 75 \Omega$

Parameter	Test Conditions	Units	Min.	Typ.	Max.
Insertion Loss	5 - 870 MHz	dB	—	0.7	1.0
	870 - 1000 MHz			0.9	1.1
	1000 - 2150 MHz			1.2	2.5
	2150 - 2400 MHz			2.8	3.9
Amplitude Unbalance (Nominal 0 dB)	5 - 1000 MHz	dB	—	0.2	± 0.7
	1000 - 2150 MHz			0.8	± 1.5
	2150 - 2400 MHz			1.3	± 1.8
Phase Unbalance (Nominal 180°)	5 - 1000 MHz	°	—	2	± 5
	1000 - 2150 MHz			2	± 10
	2150 - 2400 MHz			4	± 12
Input Return Loss	5 - 2150 MHz	dB	9	10	—
	2150 - 2400 MHz		6	9	
Output Return Loss	5 - 1000 MHz	dB	10	15	—
	1000 - 2400 MHz		6	9	
Isolation (between outputs)	5 - 2400 MHz	dB	10	18	—

Absolute Maximum Ratings^{3,4}

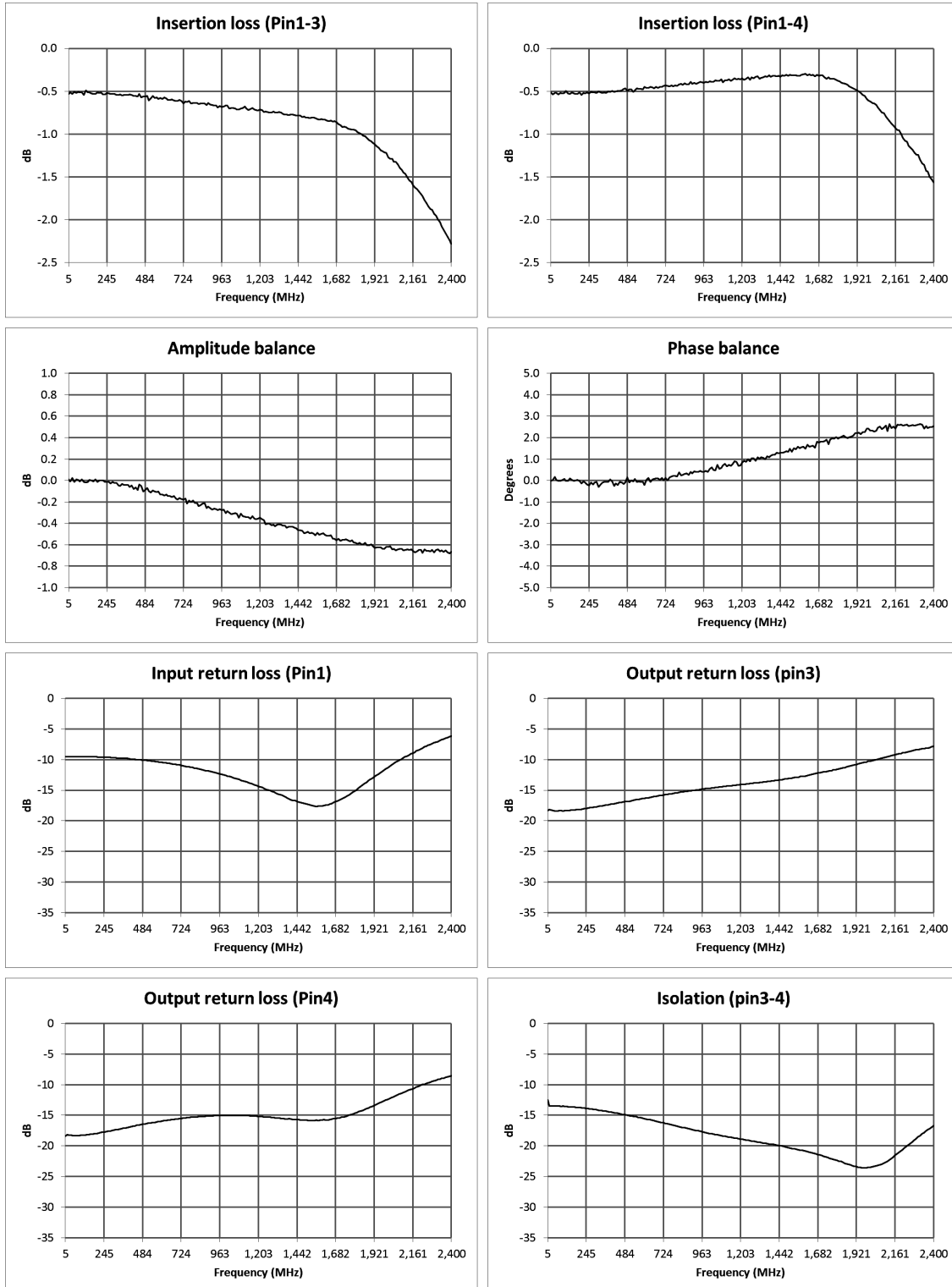
Parameter	Absolute Maximum
Input Power	1 W
DC current	240 mA
Operating Temperature	-40°C to +80°C
Storage Temperature	-40°C to +85°C

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

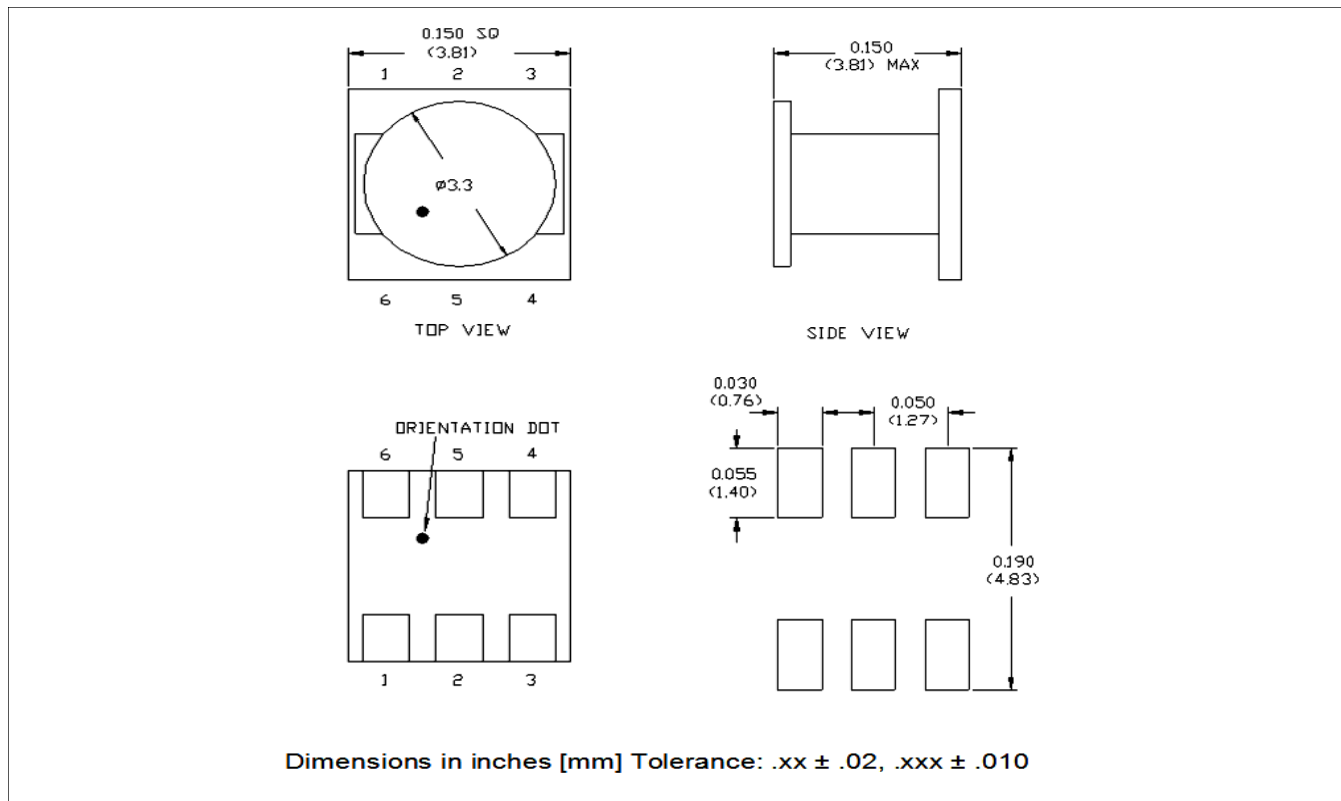
2 Way 0° Power Divider 5 - 2400 MHz

Rev. V3

Typical Performance Curves: $T_A = +25^\circ\text{C}$, $Z_0 = 75 \Omega$



Outline



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