

2 Way 0° Power Divider 5 - 2400 MHz

Rev. V3

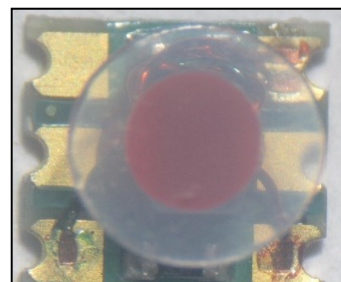
Features

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

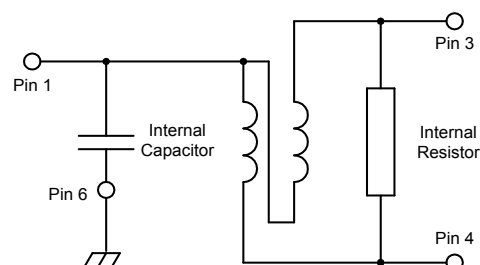
Description

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}

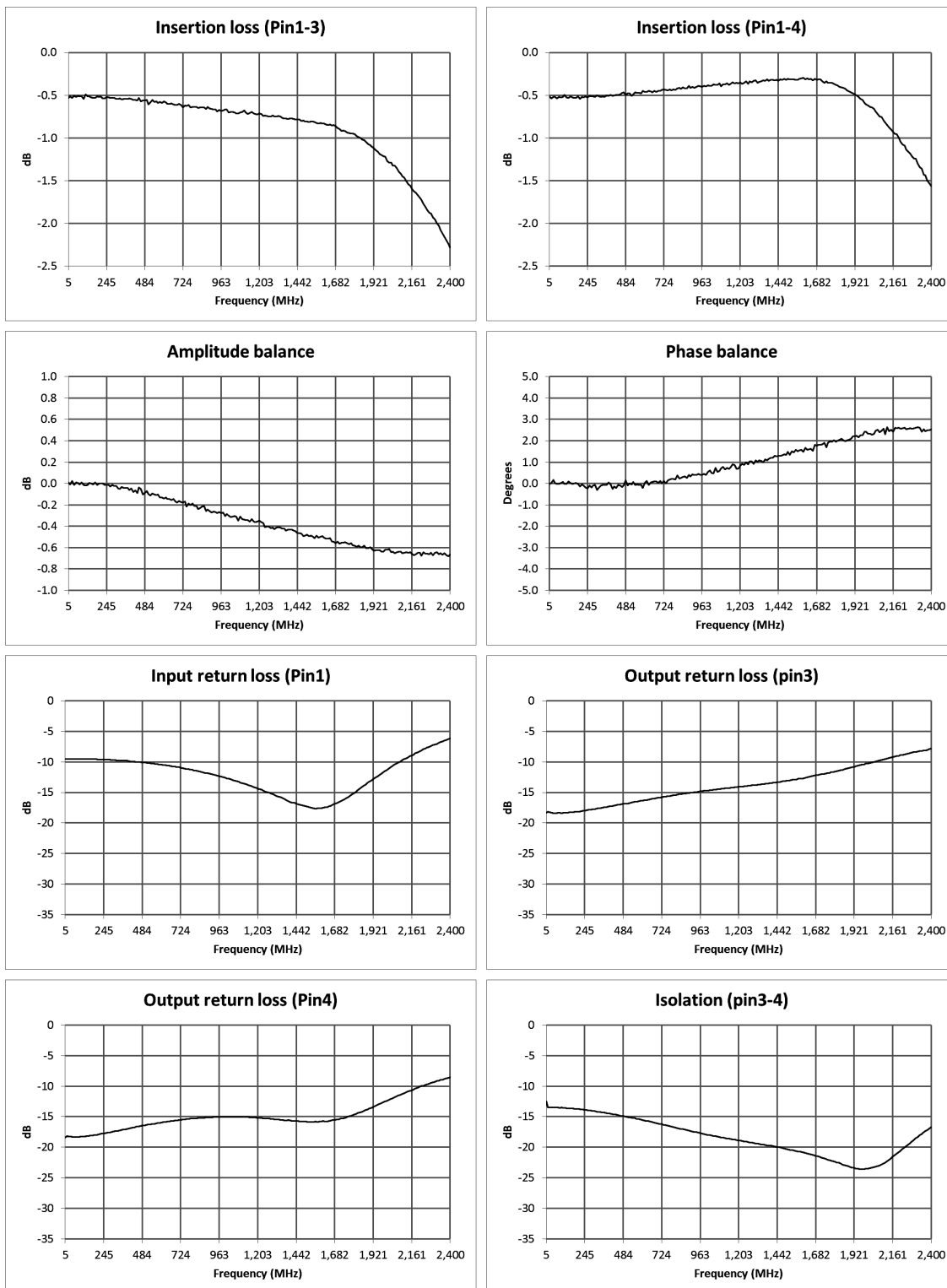
Parameter	Absolute Maximum
Input Power	1 W
DC current	240 mA
Operating Temperature	-40°C to +80°C
Storage Temperature	-40°C to +85°C

- 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

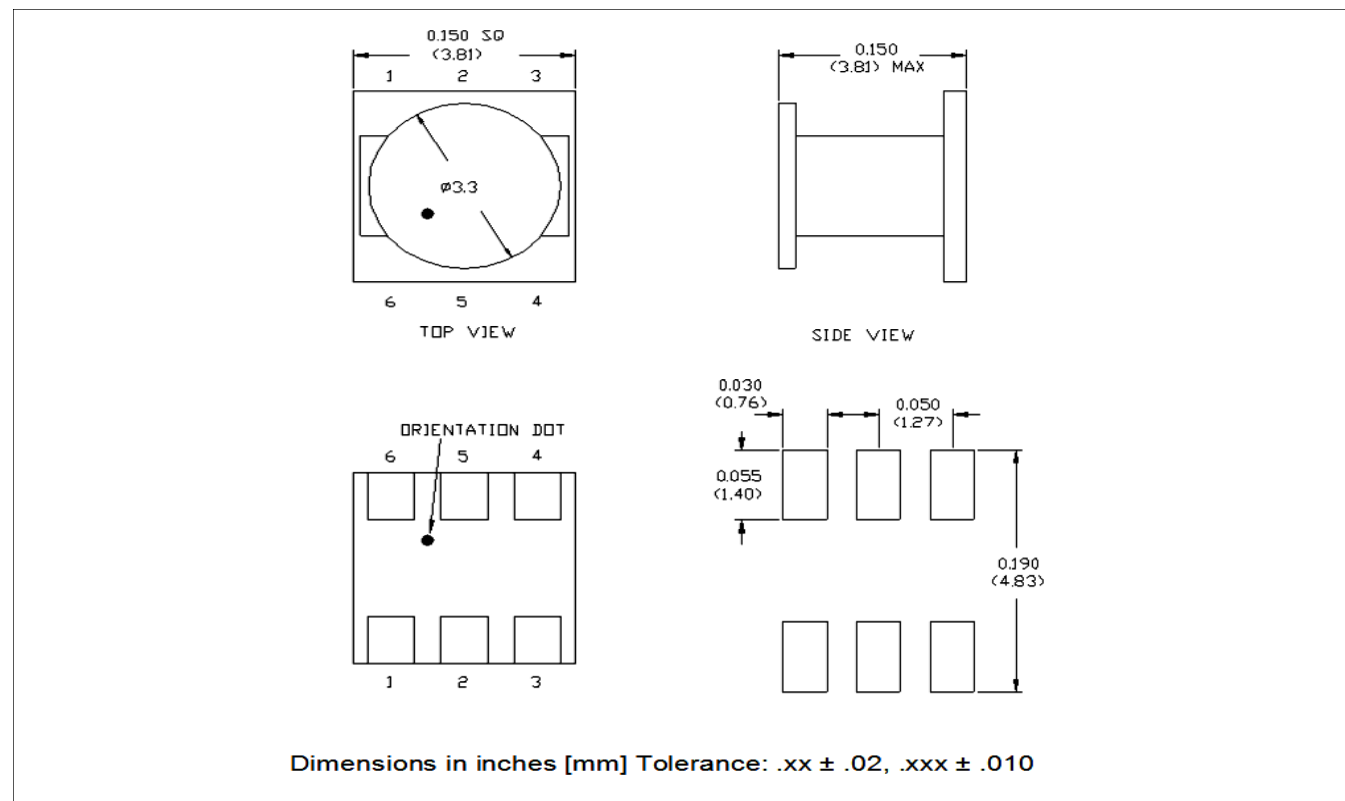
Typical Performance Curves: $T_A = +25^\circ\text{C}$, $Z_0 = 75\ \Omega$



2 Way 0° Power Divider 5 - 2400 MHz

Rev. V3

Outline



MACOM Technology Solutions Inc. All rights reserved.

Information in this document is provided in connection with MACOM Technology Solutions Inc ("MACOM") products. These materials are provided by MACOM as a service to its customers and may be used for informational purposes only. Except as provided in MACOM's Terms and Conditions of Sale for such products or in any separate agreement related to this document, MACOM assumes no liability whatsoever. MACOM assumes no responsibility for errors or omissions in these materials. MACOM may make changes to specifications and product descriptions at any time, without notice. MACOM makes no commitment to update the information and shall have no responsibility whatsoever for conflicts or incompatibilities arising from future changes to its specifications and product descriptions. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document.

THESE MATERIALS ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, RELATING TO SALE AND/OR USE OF MACOM PRODUCTS INCLUDING LIABILITY OR WARRANTIES RELATING TO FITNESS FOR A PARTICULAR PURPOSE, CONSEQUENTIAL OR INCIDENTAL DAMAGES, MERCHANTABILITY, OR INFRINGEMENT OF ANY PATENT, COPYRIGHT OR OTHER INTELLECTUAL PROPERTY RIGHT. MACOM FURTHER DOES NOT WARRANT THE ACCURACY OR COMPLETENESS OF THE INFORMATION, TEXT, GRAPHICS OR OTHER ITEMS CONTAINED WITHIN THESE MATERIALS. MACOM SHALL NOT BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION, LOST REVENUES OR LOST PROFITS, WHICH MAY RESULT FROM THE USE OF THESE MATERIALS.

MACOM products are not intended for use in medical, lifesaving or life sustaining applications. MACOM customers using or selling MACOM products for use in such applications do so at their own risk and agree to fully indemnify MACOM for any damages resulting from such improper use or sale.