

3-Way 0° Power Divider

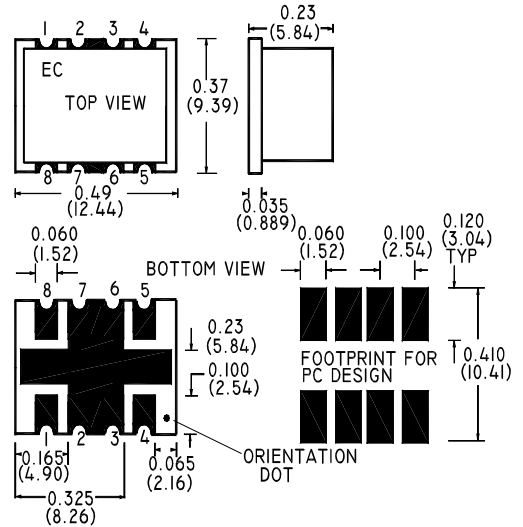
Rev V2

5 – 1000 MHz

MAPDCT0005



SM-4 Package



Features

- 3 Way
- Surface Mount
- 0 Degree

Description

M/A-COM's MAPDCT0005 is a 3 Way 0° Power Divider in a low cost, surface mount package. Ideally suited for high volume CATV & VSAT applications. No external components are required with this product.

Electrical Specifications @ 25°C, Z₀ = 75 Ohms

Frequency Range 5 - 1000 MHz	Test Conditions	Nominal	Units	Min.	Typ.	Max.
Insertion Loss (Above 4.77dB)	5 – 400 MHz	—	dB	—	0.6	1.2
	400 – 870 MHz	—	dB	—	1.5	2.6
	870 – 1000 MHz	—	dB	—	1.9	3.1
Isolation	5 – 50MHz	—	dB	15	25	—
	50 – 1000 MHz	—	dB	17	22	—
Amplitude Unbalance	5 - 1000 MHz	—	dB	1.3	0.3	—
Phase Unbalance	5 – 400 MHz	—	°	9°	2°	—
	400 – 1000 MHz	—	°	11°	4°	—
Input Return Loss	5 - 870 MHz	—	dB	18	28	—
	870 – 1000 MHz	—	dB	14	26	—
Output Return Loss	5 – 50 MHz	—	dB	8	15	—
	50 – 1000 MHz	—	dB	12	18	—

Note: Specifications subject to change without notice.

Absolute Maximum Ratings

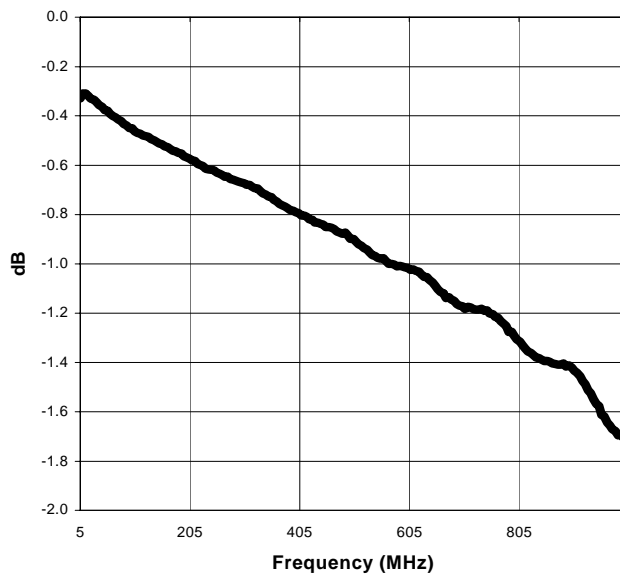
Parameter	Absolute Maximum
RF Power	1 Watt
Internal Load Dissipation	0.125 Watt
Storage Temperature	-40° C to +85°C
Operating Temperature	-40° C to +80°C

Operating Characteristics

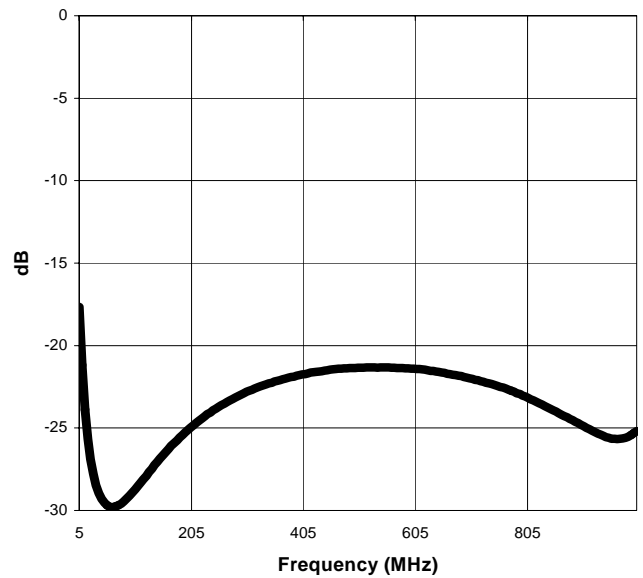
Function	Pin No.
Input	8
Port 1	1
Port 2	4
Port 3	5
Ground	2,3,6,7

Typical Performance @ +25° C

Insertion Loss



Isolation



Rev V2

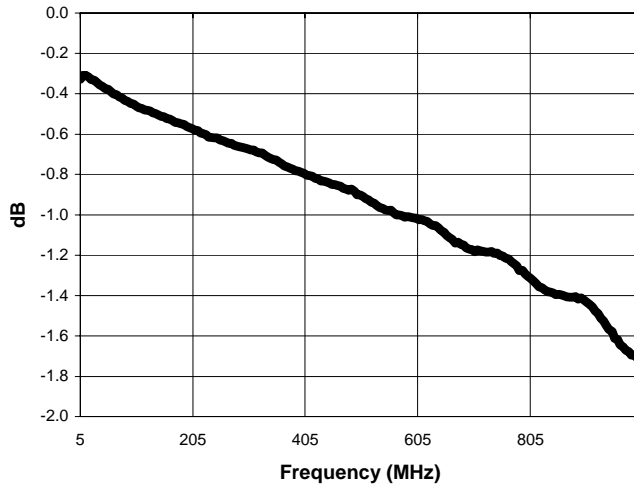
Specifications subject to change without notice.

- North America: Tel. (800) 366-2266, Fax (800) 618-8883
- Asia/Pacific: Tel.+81-44-844-8296, Fax +81-44-844-8298
- Europe: Tel. +44 (1908) 574 200, Fax+44 (1908) 574 300

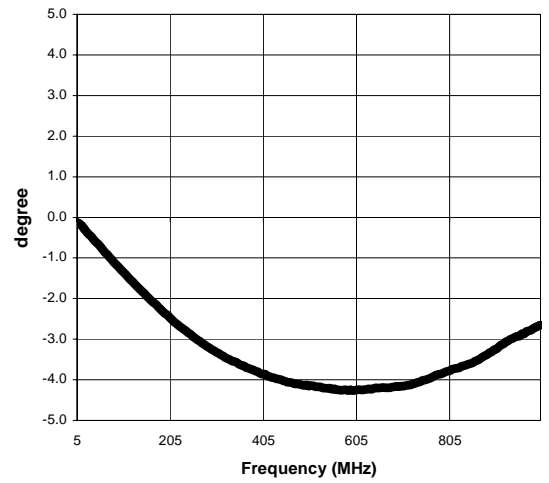
Visit www.macom.com for additional data sheets and product information.



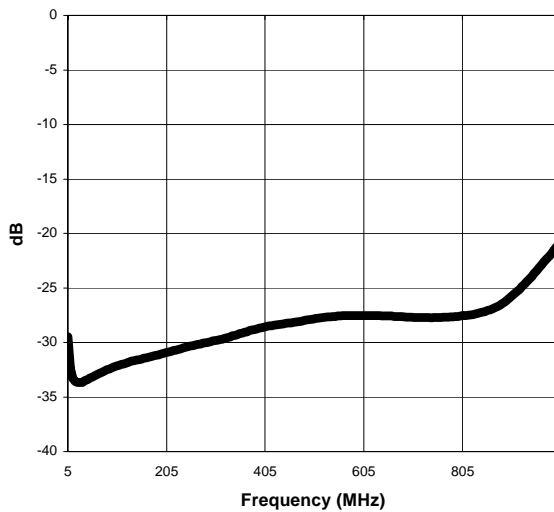
Amplitude balance



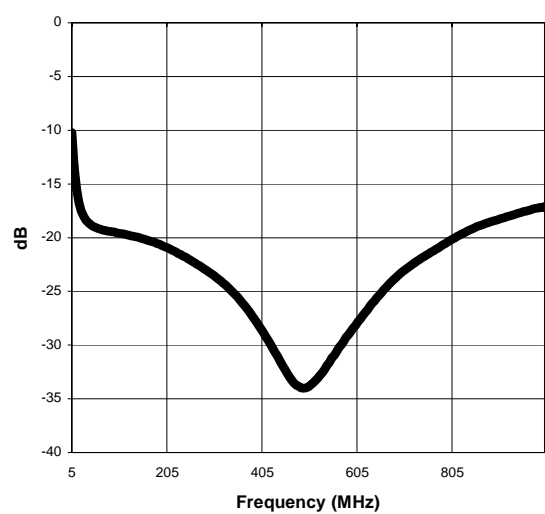
Phase Balance



Input Return Loss



Output Return Loss



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