

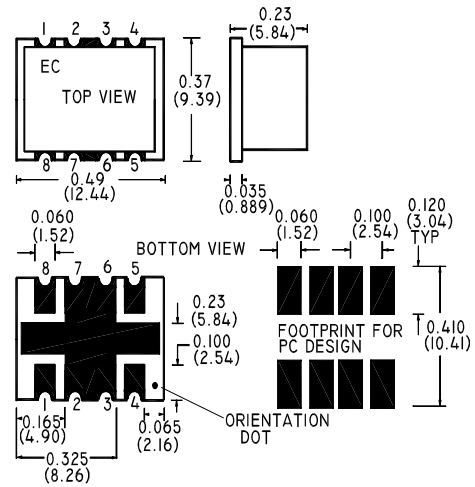
# 3-Way 0° Power Divider

## 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, Z<sub>0</sub> = 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	—	2.3	3.1
Isolation	5 - 1000 MHz	—	dB	18	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	19	28	—
	870 – 1000 MHz	—	dB	15	26	—
Output Return Loss	5 – 50 MHz	—	dB	12	22	—
	50 – 1000 MHz	—	dB	10	18	—

Note: Specifications subject to change without notice.

**Absolute Maximum Ratings**

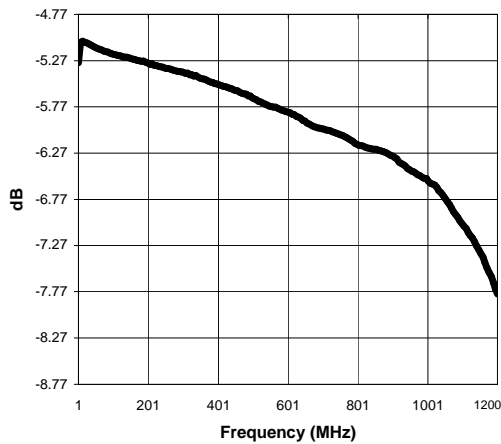
Parameter	Absolute Maximum
RF Power	1 Watt
Internal Load Dissipation	0.125 Watt
Storage Temperature	-40° C to +85°C
Operating Temperature	-40° C to +80°C

**Operating Characteristics**

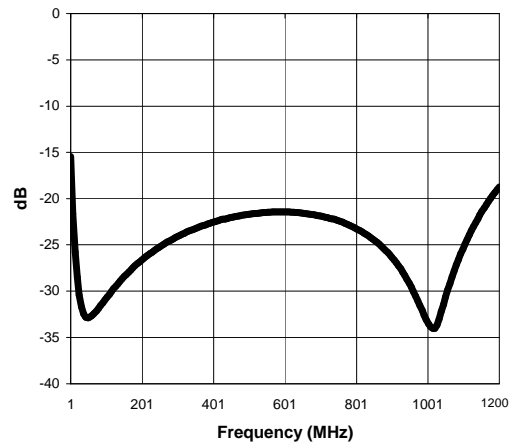
Function	Pin No.
Input	8
Port 1	1
Port 2	4
Port 3	5
Ground	2,3,6,7

**Typical Performance @ +25° C**

**Insertion Loss**



**Isolation**



Rev A

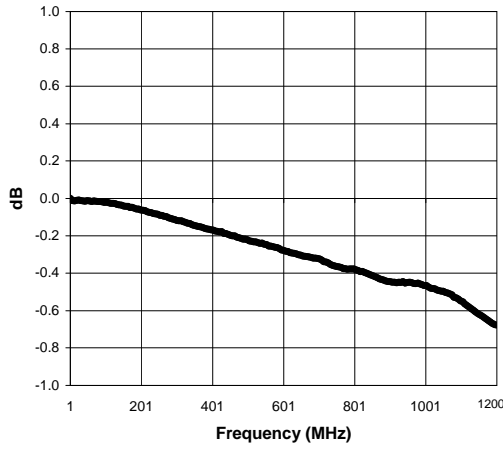
Specifications subject to change without notice.

- 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

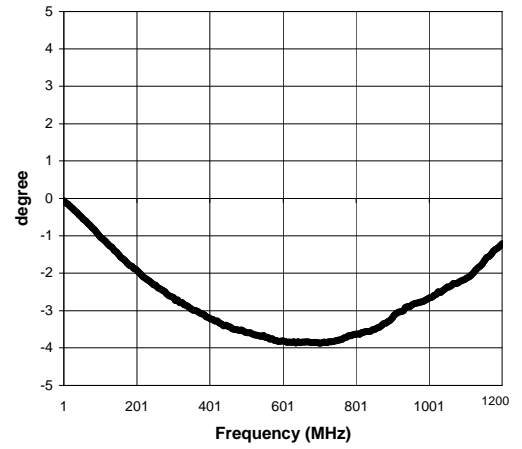
Visit [www.macom.com](http://www.macom.com) for additional data sheets and product information.



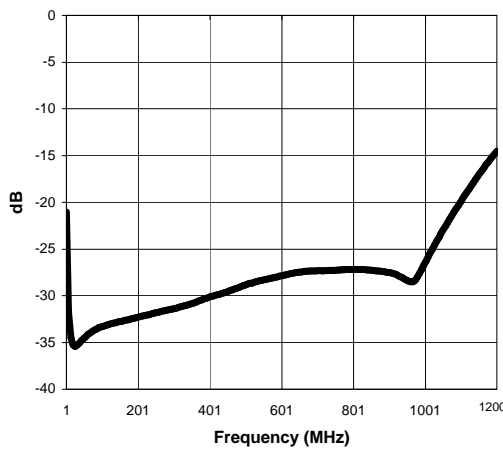
**Amplitude balance**



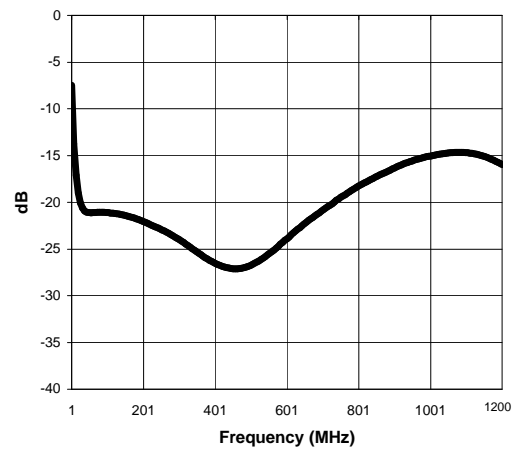
**Phase Balance**



**Input Return Loss**



**Output Return Loss**



Rev A

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