

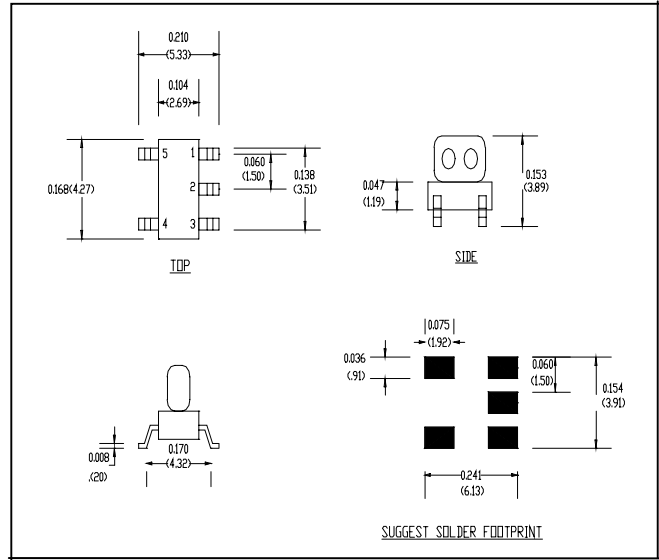
E-Series 2-Way 0° Power Divider

40 – 1000 MHz

MACPES0045



SM-138 Package



Features

- 2 Way
- Surface Mount
- 0 Degree

Description

M/A-COM's MACPES0045 is a 2 Way 0° Power Divider in a low cost, surface mount package. Ideally suited for high volume cellular, wireless applications. An external 160 Ohm chip resistor is required with this part.

Electrical Specifications @ 25°C, Z₀ = 75 Ohms

Frequency Range	Test Conditions	Nominal	Units	Min.	Typ.	Max.
40 - 1000 MHz	40 - 700 MHz	—	dB	—	0.6	1.0
	700 - 900 MHz	—	dB	—	1.2	1.5
	900 - 1000 MHz	—	dB	—	1.3	1.7
Isolation	40 - 500 MHz	—	dB	15	20	—
	500 - 900 MHz	—	dB	10	14	—
	900 - 1000 MHz	—	dB	8	12	—
Amplitude Unbalance	40 - 870 MHz	—	dB	—	0.25	0.5
	870 - 1000 MHz	—	dB	—	0.35	0.7
Phase Unbalance	40 - 870 MHz	—	°	—	3°	5°
Input Return Loss	40 - 700 MHz	—	dB	15	20	—
	700 - 1000 MHz	—	dB	10	15	—
Output Return Loss	40 - 1000 MHz	—	dB	20	25	—

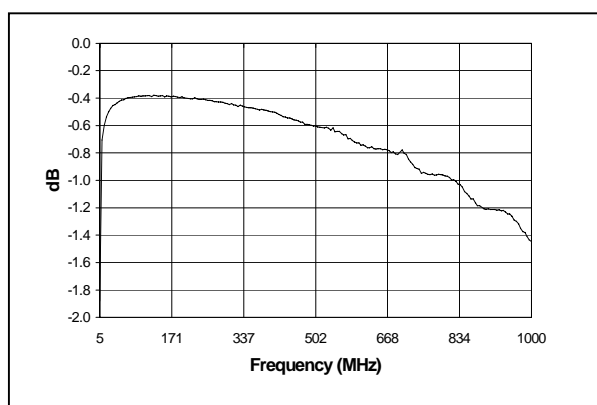
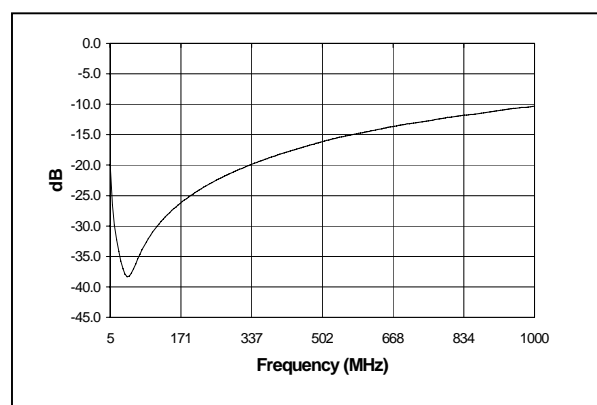
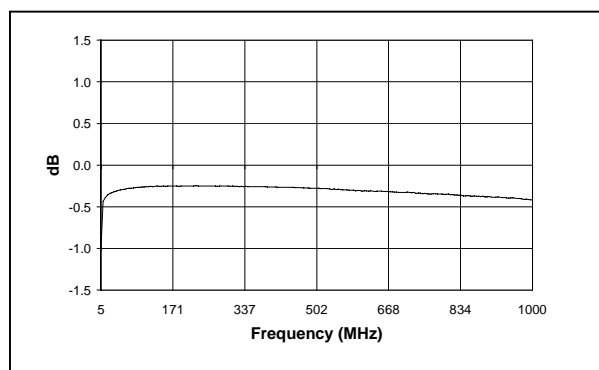
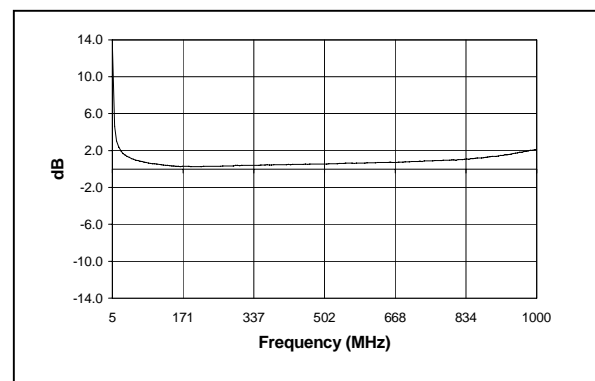
Note: Specifications subject to change without notice.

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	5
Port 1	4
Port 2	3
External 75 Ohms	-
Ground	1
Not Connected	2

Typical Performance @ +25° C**Insertion Loss****Isolation****Amplitude Unbalance****Phase Unbalance**

Rev A

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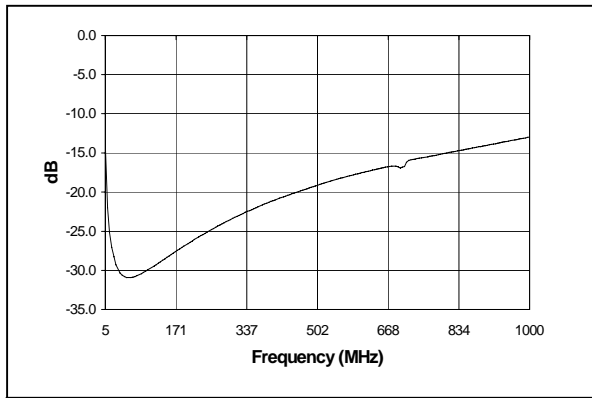
- North America: Tel. (800) 366-2266, Fax (800) 618-8883
- Asia/Pacific: Tel.+81-44-844-8296, Fax +81-44-844-8298
- Europe: Tel. +44 (1344) 869 595, Fax+44 (1344) 300 020

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

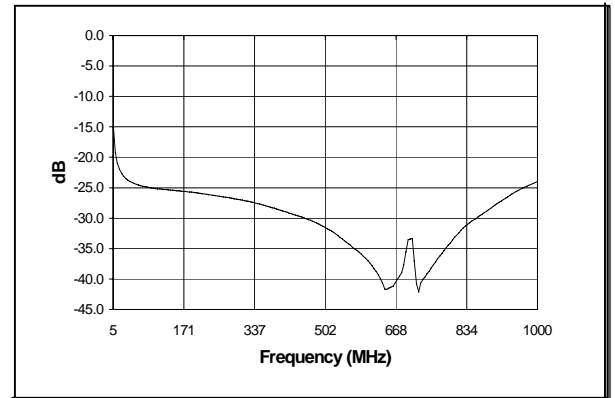
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Input Return Loss



Output Return Loss



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