

# E-Series 3-Way 0° Power Divider 5-200 MHz

Rev. V4

#### **Features**

- Surface Mount
- 75 Ohms
- RoHS Compliant
- RoHS version of ESSM-3-1-75

### **Description**

M/A-COM's MAPD-008109-C30040 is a 3 Way 0° Power Divider in a low cost, surface mount package. Ideally suited for high volume CATV applications.



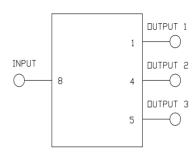
# **Pin Configuration**

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

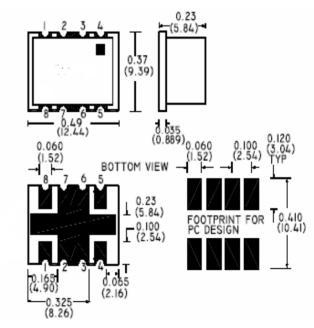
### **Ordering Information**

Part Number	Package	
MAPD-008109-C30040	500 piece reel	
MAPD-008109-C300TB	Customer Test Board	

#### **Schematic**



## Case Style: SM-4



Dimensions in inches [mm]. Tolerance where not specified:  $.xx \pm .02$ ,  $.xxx \pm .010$ 

1

# MAPD-008109-C30040



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

Parameter	Frequency	Units	Min	Тур	Max
Insertion Loss	5 - 200 MHz	dB	_	0.28	0.5
Isolation	5 - 50 MHz 50 - 60 MHz 60 -125MHz 125 - 200MHz	dB dB dB dB	30 33 28 24	37 40 36 28	_ _ _ _
Amplitude Unbalance	5 - 200 MHz	dB	_	_	±0.1
Phase Unbalance	5 - 200 MHz	0	_	_	±1°
Input Return Loss	5 –200 MHz	dB	28	34	_
Output Return Loss	5 –200 MHz	dB	20	25	_

# Absolute Maximum Ratings 1,2

Parameter	Absolute Maximum		
RF Power	1 Watt		
Internal Load Dissipation	0.125 Watt		
Pin Temp (10 sec.)	260°C		
Storage Temperature	-55°C to +100°C		
Operating Temperature	-40°C to +85°C		

<sup>1.</sup> Exceeding any one or combination of these limits may cause permanent damage to this device.

<sup>2.</sup> M/A-COM does not recommend sustained operation near these survivability limits.

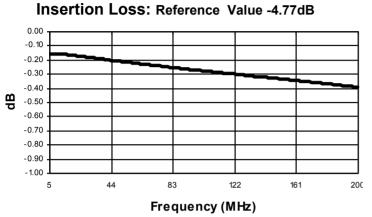
# MAPD-008109-C30040

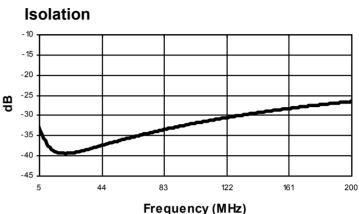


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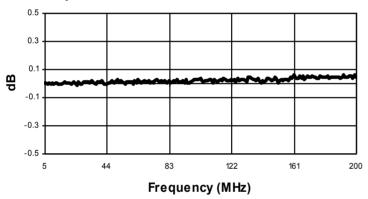
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# Typical Performance Curves $T_A = 25^{\circ}C$ , $Z_0 = 75\Omega$

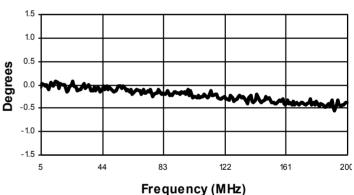




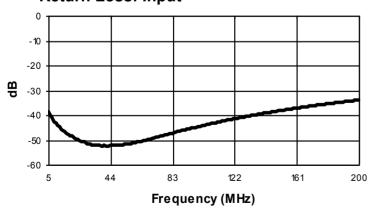
#### **Amplitude Unbalance**



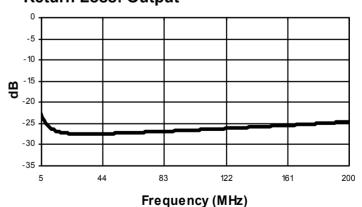
### **Phase Unbalance**



## **Return Loss: Input**



### **Return Loss: Output**



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