MAPD-008109-C30040



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

M/A-COM Products Release - Rev. V3

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.



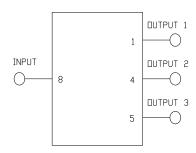
Pin Configuration

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

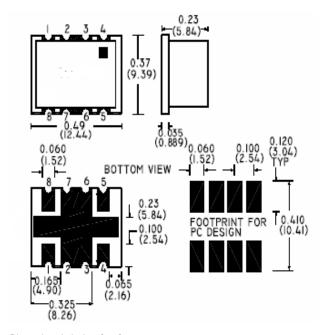
Ordering Information

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: $.xx \pm .02$, $.xxx \pm .010$

ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed.

PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in volume is not guaranteed.

- North America Tel: 800.366.2266 Europe Tel: +353.21.244.6400
- China Tel: +86.21.2407.1588 • India Tel: +91.80.4155721 Visit www.macomtech.com for additional data sheets and product information.

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Electrical Specifications: $T_A = 25$ °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		

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^{1.} Exceeding any one or combination of these limits may cause permanent damage to this device.

^{2.} M/A-COM does not recommend sustained operation near these survivability limits.

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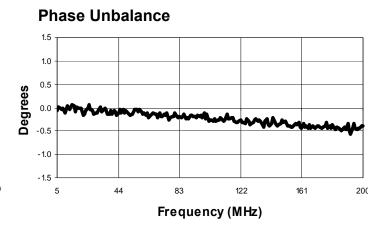
M/A-COM Products Release - Rev. V3

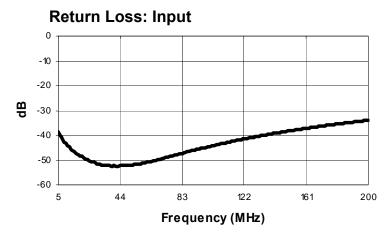
Typical Performance Curves $T_A = 25^{\circ}C$, $Z_0 = 75\Omega$

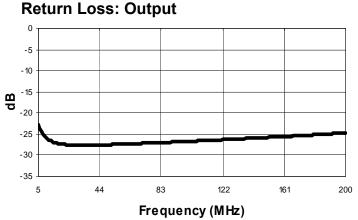
Insertion Loss: Reference Value -4.77dB -0.00 -0.10 -0.20 -0.30 -0.40 -0.50 -0.60 -0.70 -0.80 -0.90 -1.00 5 44 83 122 161 200 Frequency (MHz)

Isolation -10 -15 -20 -25 -30 -35 -40 -45 5 44 83 122 161 200 Frequency (MHz)

Amplitude Unbalance 0.5 0.3 0.1 -0.1 -0.5 5 44 83 122 161 200 Frequency (MHz)







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