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.



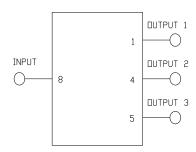
Pin Configuration

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

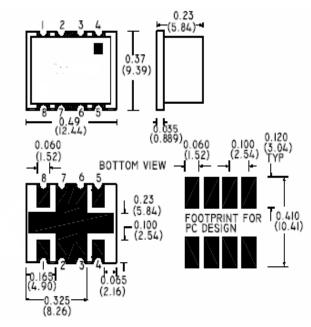
Ordering Information

| 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 Solutions has under development. Perioritance is a based on engineering tests. Specimental 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
- India Tel: +91.80.4155721 Visit www.macomtech.com for additional data sheets and product information.
- China Tel: +86.21.2407.1588

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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 | | |

^{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.

[•] India Tel: +91.80.4155721

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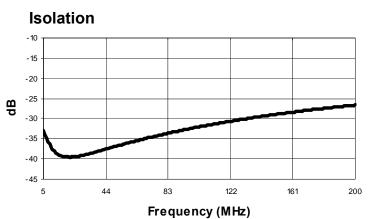


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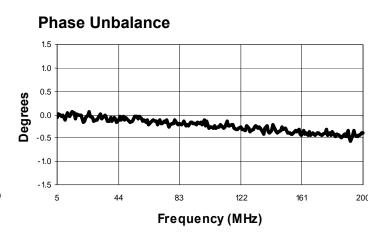
M/A-COM Products Release - Rev. V3

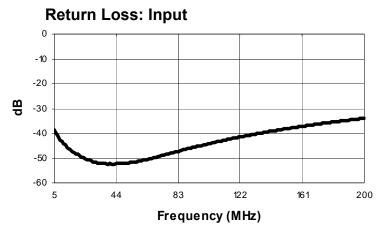
Typical Performance Curves $T_A = 25^{\circ}C$, $Z_0 = 75\Omega$

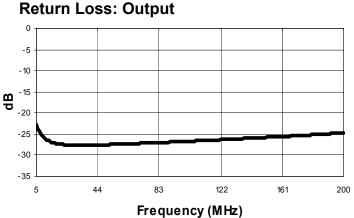
Insertion Loss: Reference Value -4.77dB -0.00 -0.10 -0.20 -0.30 -0.40 -0.50 -0.60 -0.70 -0.80 -0.90 -1.00 5 44 83 122 161 200 Frequency (MHz)



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







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