

## E-Series 2-Way 0° Power Divider 5 – 900 MHz

MAPD-008072-ESSM26  
V2P

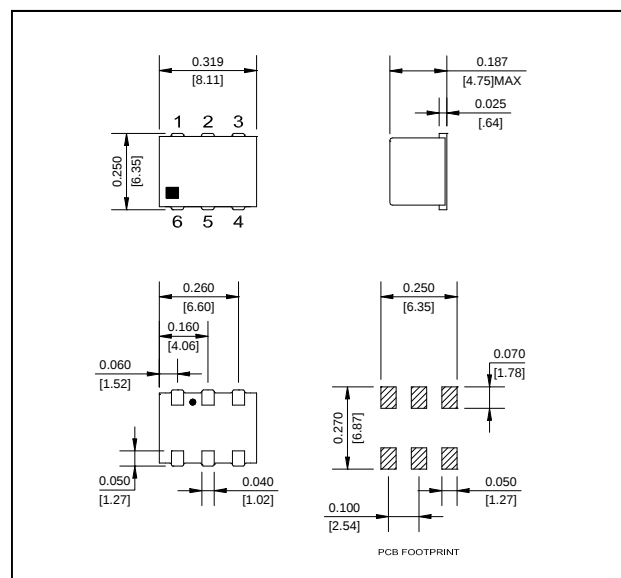
## Features

- Surface mount
- Wide frequency range
- 2-Way—0°
- RoHS\* Compliant and is 260°C reflow compatible.
- Available on Tape and Reel, reel quantity 900

### Description

M/A-COM's MAPD-008072-ESSM26 is a RoHS compliant 2 Way 0° Power Divider in a low cost, surface mount package. Ideally suited for high volume cellular and wireless applications. Parts are packaged in tape & reel.

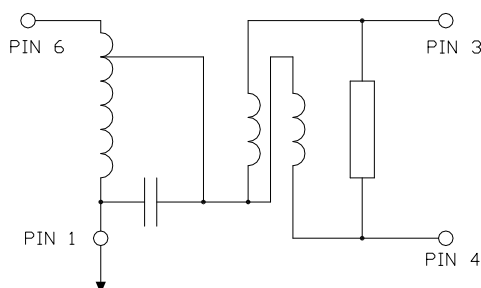
## SM-1 Package



## Pin Configuration

| Pin No. | Function      |
|---------|---------------|
| 1       | Ground        |
| 2       | Not Connected |
| 3       | Port 2        |
| 4       | Port 1        |
| 5       | Not Connected |
| 6       | Input         |

## Schematic



*This PRELIMINARY Data Sheet contains information regarding a product M/A-COM has under development. Performance is based on measured results and target specifications. Commitment to produce in volume is not guaranteed.*

\* Restrictions on Hazardous Substances, European Union Directive 2002/95/EC.

## Ordering Information

| Part Number        | Package        |
|--------------------|----------------|
| MAPD-008072-ESSM26 | 900 piece reel |

Note: Reference Application Note M513 for reel size information.

### Absolute Maximum Ratings <sup>1,2</sup>

| Parameter                 | Absolute Maximum |
|---------------------------|------------------|
| Maximum Power Rating      | 1 Watt           |
| Internal Load Dissipation | 0.125 Watt       |
| Pin Temperature (10 Sec)  | 250°C            |
| Operating Temperature     | -40°C to +85°C   |
| Storage Temperature       | -55°C to +125°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.

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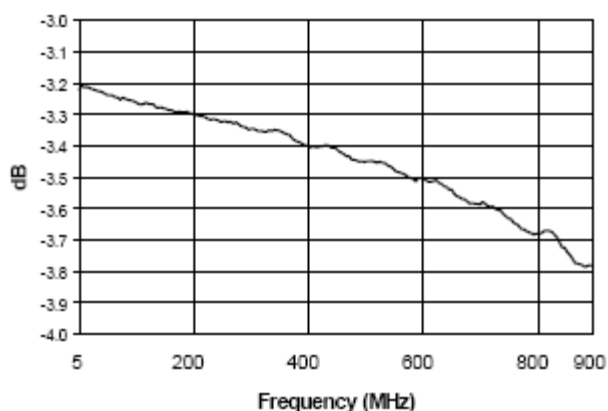
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Electrical Specifications:  $T_A = 25^\circ\text{C}$ ,  $Z_0 = 50\Omega$  <sup>1</sup>

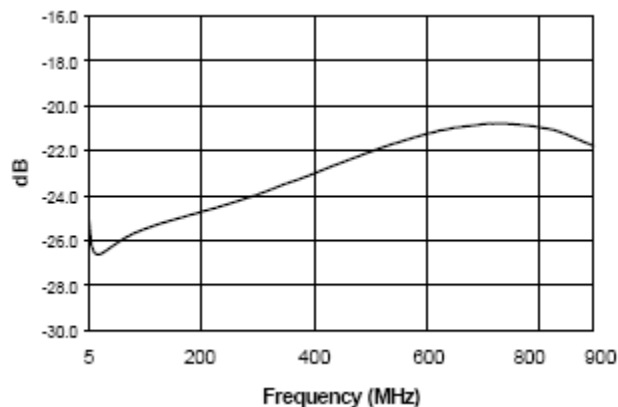
| Parameter                  | Test Conditions | Frequency | Units   | Min  | Typ  | Max |
|----------------------------|-----------------|-----------|---------|------|------|-----|
| RF Frequency               | —               | 5 - 900   | MHz     | —    | —    | —   |
| Insertion Loss             | $F_L - f_U$     | 5 - 50    | dB      | —    | 0.2  | 0.4 |
|                            |                 | 50 - 450  | dB      | —    | 0.4  | 0.7 |
|                            |                 | 450 - 900 | dB      | —    | 0.7  | 1.2 |
| Isolation                  | $F_L - f_U$     | 5 - 50    | dB      | 20   | 28   | —   |
|                            |                 | 50 - 450  | dB      | 20   | 28   | —   |
|                            |                 | 450 - 900 | dB      | 15   | 22   | —   |
| Amplitude Unbalance        | $F_L - f_U$     | 5 - 50    | dB      | —    | —    | 0.2 |
|                            |                 | 50 - 450  | dB      | —    | —    | 0.3 |
|                            |                 | 450 - 900 | dB      | —    | —    | 0.5 |
| Phase Unbalance            | $F_L - f_U$     | 5 - 50    | Degrees | —    | —    | 2   |
|                            |                 | 50 - 450  | Degrees | —    | —    | 3   |
|                            |                 | 450 - 900 | Degrees | —    | —    | 5   |
| Input & Output Return Loss | $F_L - f_U$     | 5 - 900   | dB      | 16.0 | 25.0 | —   |

## Typical Performance @ +25° C

### Insertion Loss



### Isolation

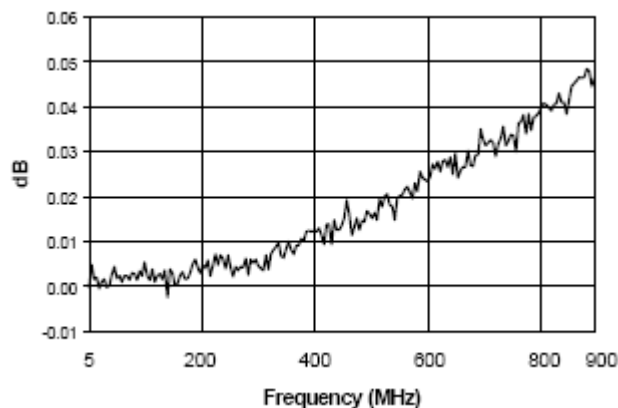


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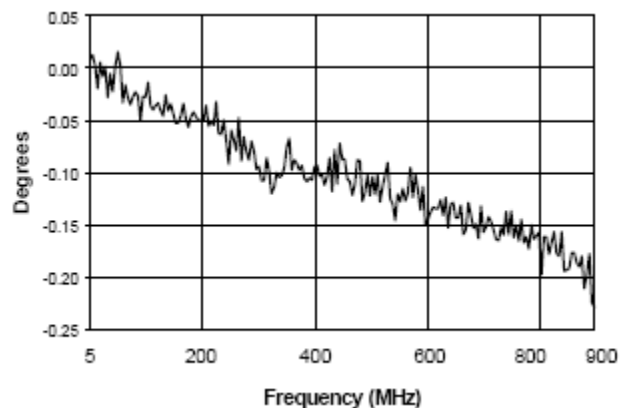
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### Typical Performance @ +25° C

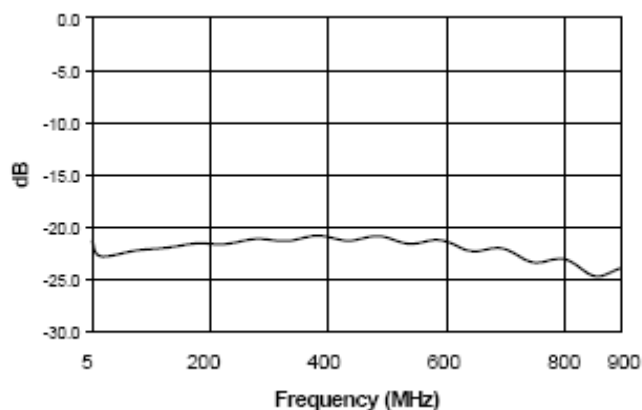
#### Amplitude Unbalance



#### Phase Unbalance



#### Output Return Loss



#### Input Return Loss

