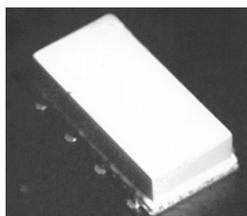


# E-Series 4-Way 0° Power Divider 5 – 1000 MHz

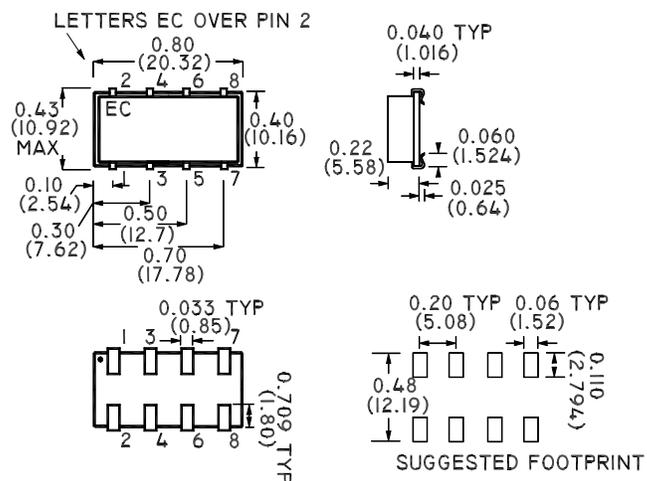


## Features

- 4 Way
- 0 Degree
- Surface Mount Package
- Available on Tape and Reel



## SM-46 Package



## Description

M/A-COM's ESJ-4-2-75 is a Low Cost, Broadband, high performance Power Divider for use in high volume CATV applications. ESJ-4-2-75 is available in an SM-46 surface mount package and reflows using standard soldering reflow profiles.

## Electrical Specifications @ +25°C

| Parameter           | Units          | Minimum | Typical | Maximum |
|---------------------|----------------|---------|---------|---------|
| Frequency Range     | 5 - 1000       | MHz     | —       | —       |
| Insertion Loss      | 5 - 80 MHz     | dB      | —       | 0.6     |
|                     | 50 - 500 MHz   | dB      | —       | 0.8     |
|                     | 500 - 1000 MHz | dB      | —       | 1.0     |
| Isolation           | 5 - 80 MHz     | dB      | 20      | —       |
|                     | 50 - 500 MHz   | dB      | 20      | —       |
|                     | 500 - 1000 MHz | dB      | 20      | —       |
| Amplitude Unbalance | 5 - 80 MHz     | dB      | —       | 0.1     |
|                     | 80 - 1000 MHz  | dB      | —       | 0.3     |
| Phase Unbalance     | 5 - 80 MHz     | °       | —       | 0.1     |
|                     | 80 - 500 MHz   | °       | —       | 3°      |
|                     | 500 - 1000 MHz | °       | —       | 6°      |
| Input Return Loss   | 5 - 80 MHz     | dB      | 21      | 25      |
|                     | 80 - 1000 MHz  | dB      | 18      | 21      |
| Output Return Loss  | 5 - 1000 MHz   | dB      | 16      | 19      |

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### Absolute Maximum Ratings

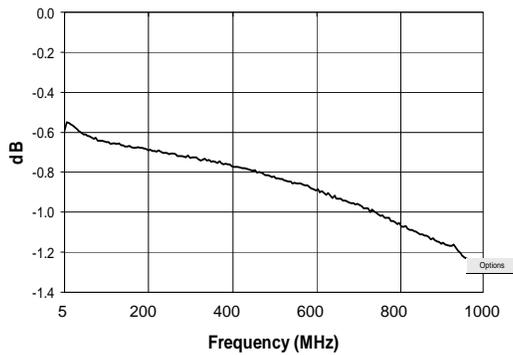
| Parameter                 | Absolute Maximum |
|---------------------------|------------------|
| Maximum Power Rating      | 1 Watt           |
| Internal Load Dissipation | 0.125 Watt       |
| Pin Temperature (10 Sec)  | 260°C            |
| Storage Temperature       | -55°C to +100°C  |
| Operating Temperature     | -20°C to +85°C   |

### Functional Configuration

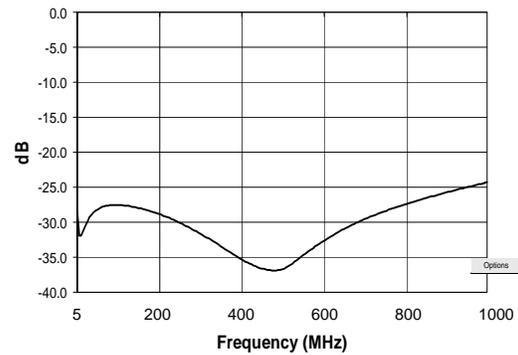
| Function         | Pin No. |
|------------------|---------|
| Not Connected    | —       |
| External 75 Ohms | —       |
| Ground           | 1,5,7   |
| Case Ground      | —       |
| Input            | 3       |
| Port 1           | 2       |
| Port 2           | 4       |
| Port 3           | 6       |
| Port 4           | 8       |

### Typical Performance @ +25°C

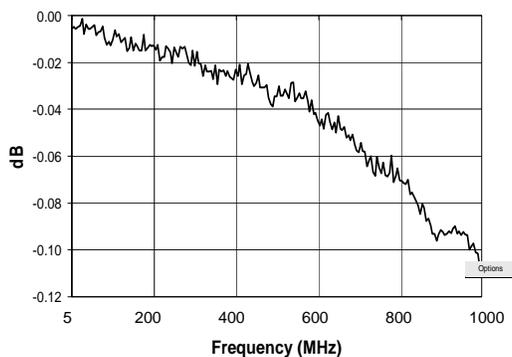
Insertion Loss



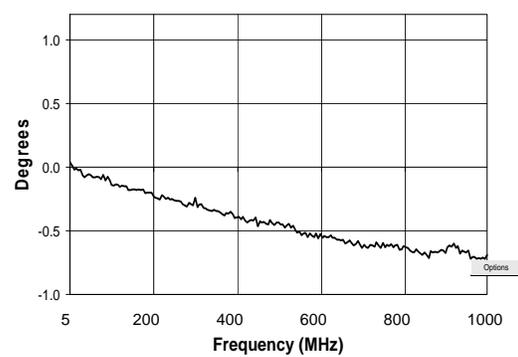
Isolation



Amplitude Unbalance



Phase Unbalance



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V2.00 S 1218 C

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