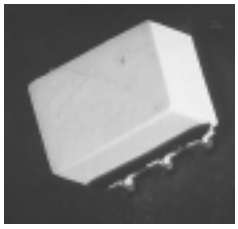
AMP M/A-COM

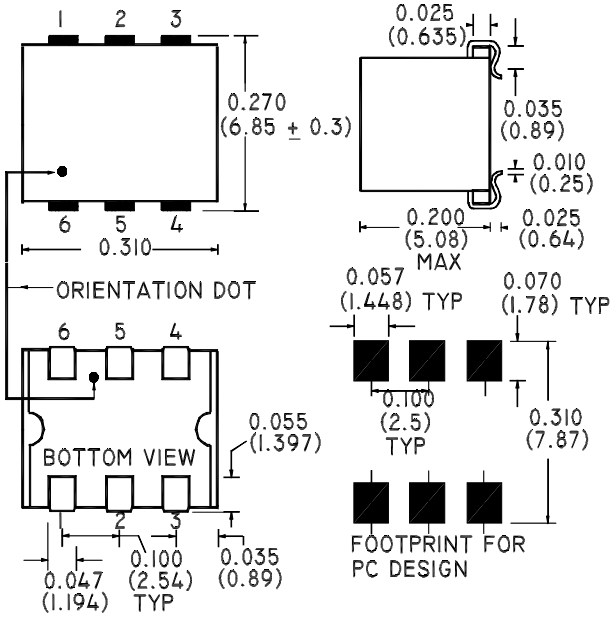
# E-Series 2-Way 0° Power Divider 5 - 1000 MHz

## Features

- 2 Way
- 0 Degree
- Surface Mount
- 75 Ohm



## SM-44 Package




## Description

M/A-COM's ESSMJ-2-12-75 is a 2 Way 0° Power Divider in a low cost, surface mount package. Ideally suited for high volume CATV applications.

## Electrical Specifications @25°C

| Parameter | | Units | Typical | Minimum | Maximum |
|---|---|---|---|---|---|
| Frequency Range | 5 - 1000 | MHz | — | — | — |
| Insertion Loss | 5 - 400 MHz | dB | 0.4 | — | 0.6 |
| | 400 - 500 MHz | dB | 0.5 | — | 0.7 |
| | 500 - 1000 MHz | dB | 0.9 | — | 1.2 |
| Isolation | 5 - 400 MHz | dB | 35 | 27 | — |
| | 400 - 500 MHz | dB | 30 | 24 | — |
| | 500 - 1000 MHz | dB | 20 | 19 | — |
| Amplitude Unbalance | 5 - 400 MHz | dB | — | — | 0.2 |
| | 400 - 500 MHz | dB | — | — | 0.3 |
| | 500 - 1000 MHz | dB | — | — | 0.6 |
| Phase Unbalance | 5 - 400 MHz | ° | — | — | 1.0° |
| | 400 - 500 MHz | ° | — | — | 2.0° |
| | 500 - 1000 MHz | ° | — | — | 4.0° |
| Output Return Loss | 5 - 40 MHz | dB | 20 | 13 | — |
| | 40 - 860 MHz | dB | 25 | 22 | — |
| | 860 - 1000 MHz | dB | 25 | 20 | — |
| Input Return Loss | 5 - 40 MHz | dB | 20 | 15 | — |
| | 40 - 860 MHz | dB | 24 | 20 | — |
| | 860 - 1000 MHz | dB | 21 | 17 | — |
| Insertion Loss Flatness | | dB | — | — | 0.9 |

Please Note that the photograph above indicates package shape only, unit may be wired differently.



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## Absolute Maximum Ratings

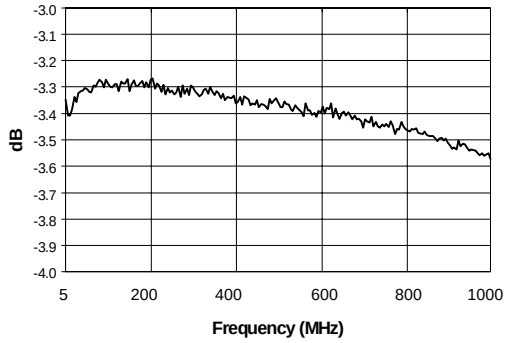
| Parameter | Absolute Maximum |
|---|---|
| RF Power | 1 Watt |
| Internal Load Dissipation | 0.125 Watt |
| Pin Temp (10 Sec) | 260°C |
| Storage Temperature | -55°C to 100°C |
| Operating Temperature | -25°C to 85°C |

## Functional Configuration

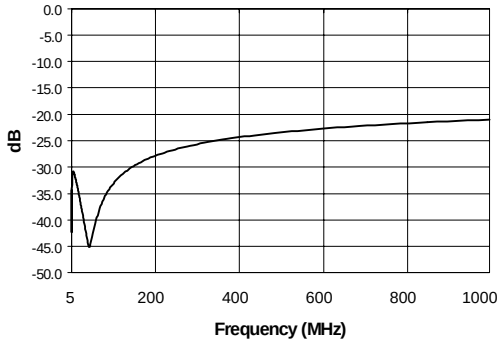
| Function | Pin No. |
|---|---|
| Not Connected | 2,5 |
| External 75 Ohms | — |
| Ground | 1 |
| Case Ground | — |
| Input | 6 |
| Port 1 | 4 |
| Port 2 | 3 |

## Typical Performance @ +25°C

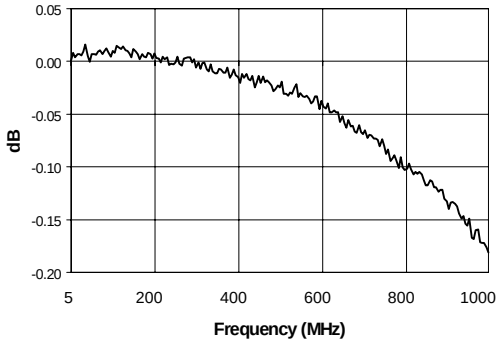
### Insertion Loss



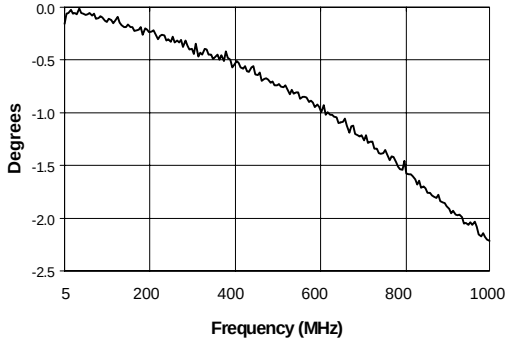

### Isolation



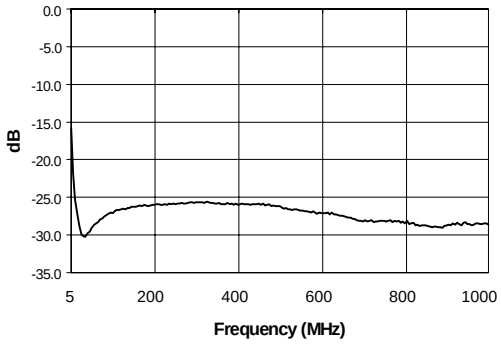

### Amplitude Unbalance



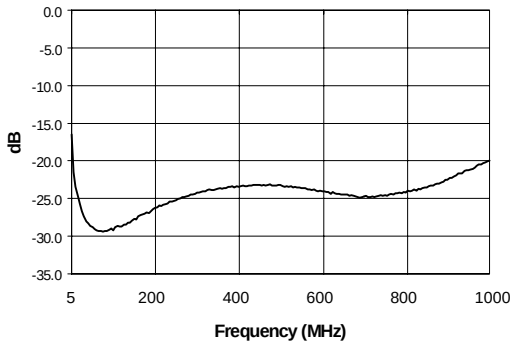

### Phase Unbalance




### Output Return Loss




### Input Return Loss






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