



M/A-COM

ESJ-4-2-75

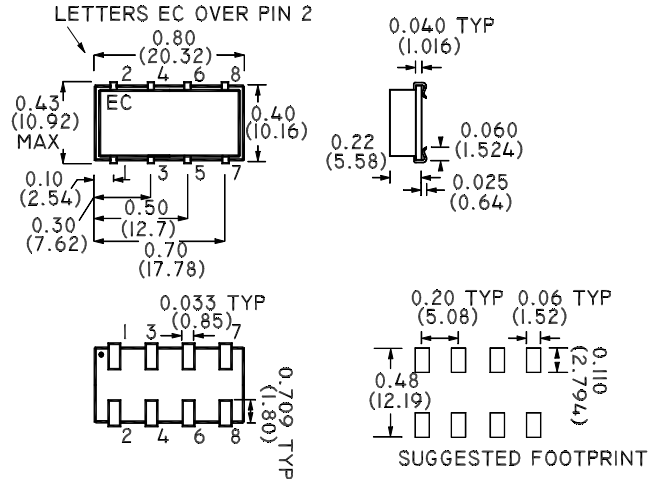
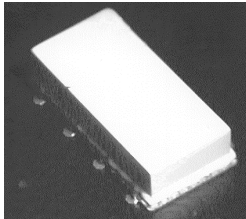
# E-Series 4-Way 0° Power Divider 5 – 1000 MHz



## 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**

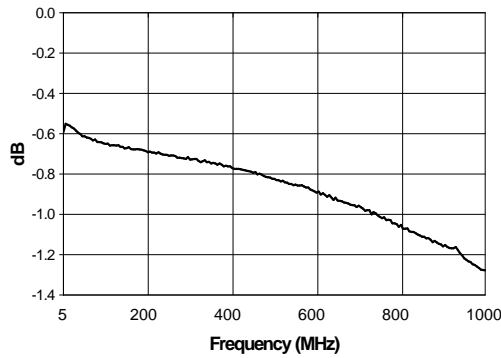
Parameter	Absolute Maximum
Maximum Power Rating	1 Watt
Internal Load Dissipation	0.125 Watt
Pin Temperature (10 Sec)	260°C
Storage Temperature	-55°C to +100°C
Operating Temperature	-20°C to +85°C

**Functional Configuration**

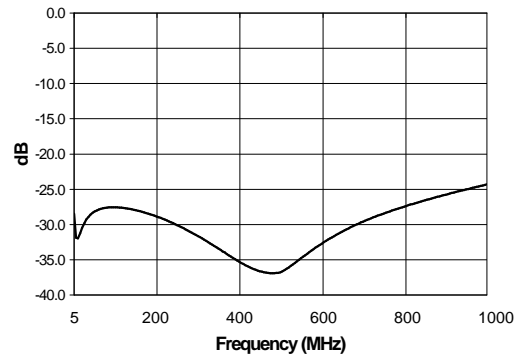
Function	Pin No.
Not Connected	—
External 75 Ohms	—
Ground	1,5,7
Case Ground	—
Input	3
Port 1	2
Port 2	4
Port 3	6
Port 4	8

**Typical Performance @ +25°C**

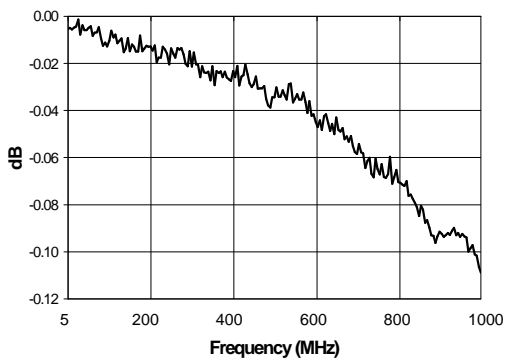
**Insertion Loss**



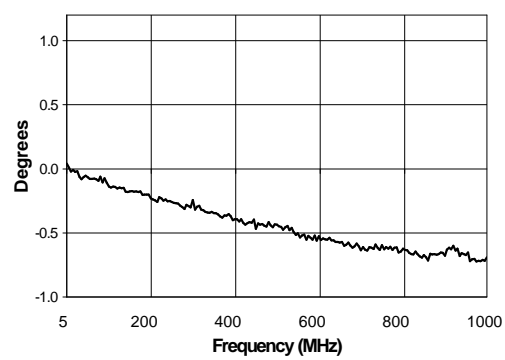
**Isolation**



**Amplitude Unbalance**



**Phase Unbalance**



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