

ESSMJ-2-12-75



2 Way 0° Power Divider, 5-100-MHz

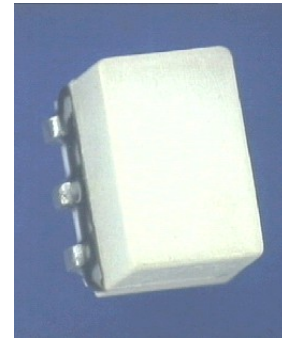
Rev. E

Features

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

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 - 500 MHz	dB	0.4	—	0.6
500 - 1000 MHz	dB	0.5	—	1.2
Isolation 5 - 600 MHz	dB	35	20	—
600 - 1000 MHz	dB	30	17.5	—
Amplitude Unbalance 5 - 600 MHz	dB	—	—	0.2
600 - 1000 MHz	dB	—	—	0.5
Phase Unbalance 5 - 100 MHz	°	—	—	1.5°
100 - 500 MHz	°	—	—	3.5°
500 - 1000MHz	°	—	—	4.0°
Output Return Loss 5 - 40 MHz	dB	20	12	—
40 - 1000 MHz	dB	25	20	—
Input Return Loss 5 - 40 MHz	dB	20	13.5	—
40 - 500 MHz	dB	24	20	—
500 - 860 MHz	dB	21	17	—
860-1000 MHz	dB	19	14	—
Insertion Loss Flatness	dB	—	—	0.9

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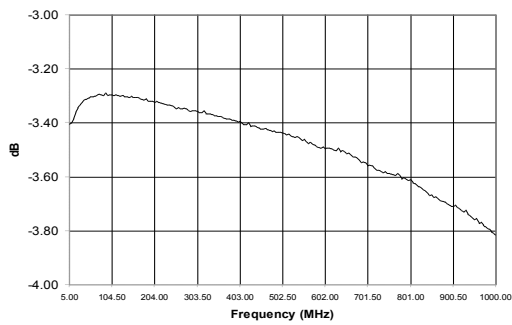


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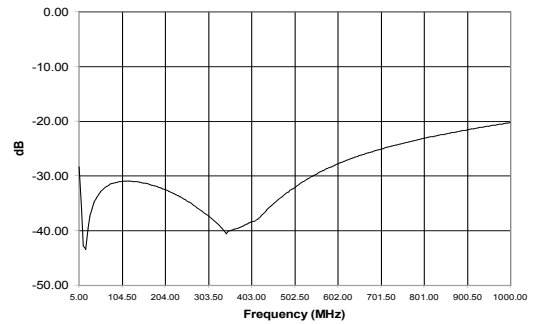
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Typical Performance @ +25°C

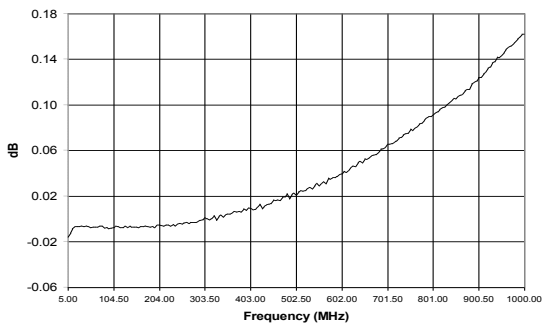
Insertion Loss



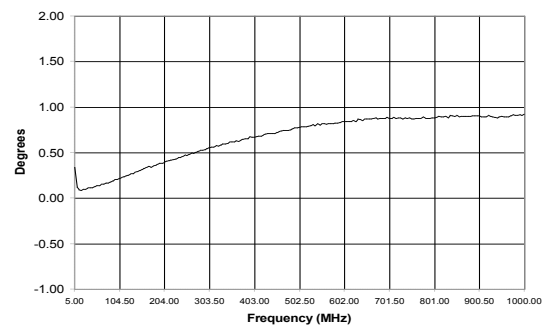
Isolation



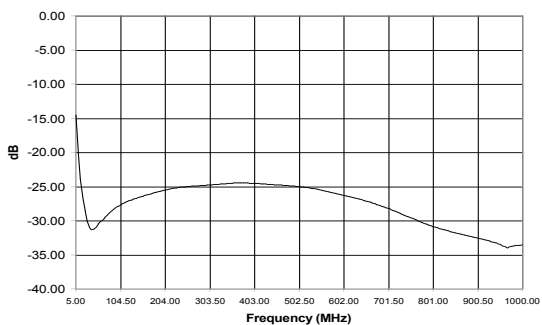
Amplitude Unbalance



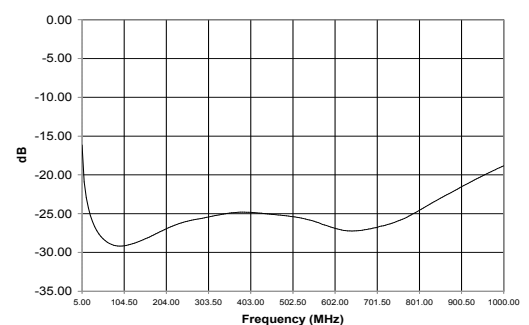
Phase Unbalance



Output Return Loss



Input Return Loss



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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

Pin Configuration

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

