

2 Way 0° Power Divider, 5-1000 MHz

Rev E

Features

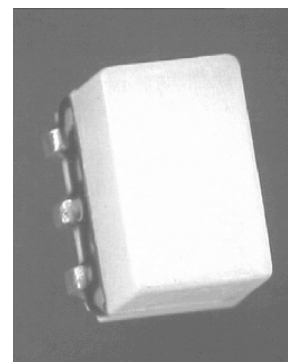
- 2 Way
- 0 Degree
- Surface Mount
- 75 Ohm

Description

M/A-COM's ESMJ-2-12-75 is a 2 Way 0° Power Divider in a low cost,

Electrical Specifications @25 °C

surface



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

V2.00 S 1226 E

ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed.

PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in volume is not guaranteed.

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Visit www.macomtech.com for additional data sheets and product information.

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ESSMJ-2-12-75



Absolute Maximum Ratings

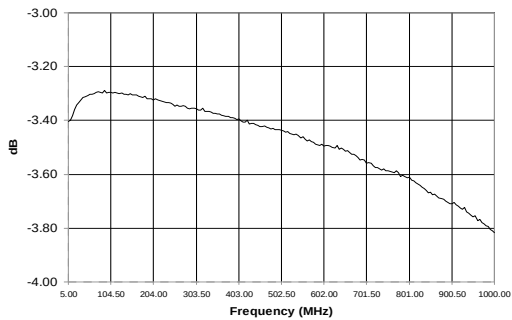
Parameter	Absolute Maximum
RF Power	1 Watt
Internal Load Dissipation	0.125 Watt
Pin Temp (10 Sec)	260°C
Storage Temperature	-55°C to 100°C
Operating Temperature	-25°C to 85°C

Functional Configuration

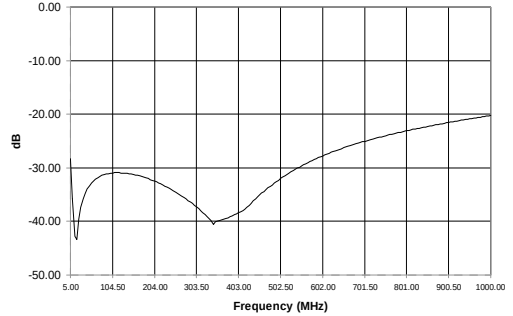
Function	Pin No.
Not Connected	2,5
External 75 Ohms	—
Ground	1
Case Ground	—
Input	6
Port 1	4
Port 2	3

Typical Performance @ +25°C

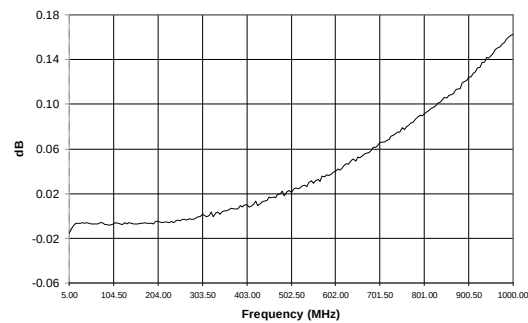
Insertion Loss



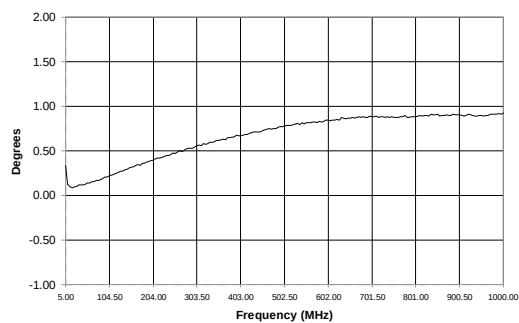
Isolation



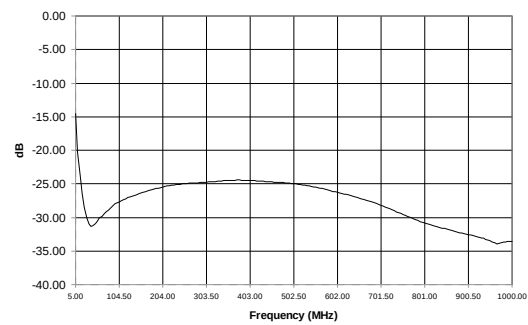
Amplitude Unbalance



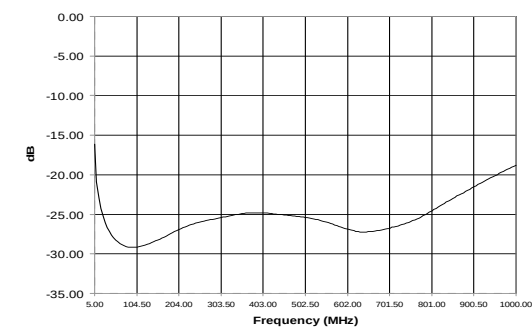
Phase Unbalance



Output Return Loss



Input Return Loss



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Pin Configuration

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Not Connected	2,5
External 75 Ohms	—
Ground	1
Case Ground	—
Input	6
Port 1	4
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SM-44 Package

