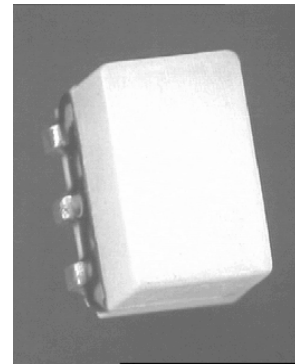


2 Way 0° Power Divider, 5-1000 MHz

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	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

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.

M/A-COM Technology Solutions Inc. and its affiliates reserve the right to make changes to the product(s) or information contained herein without notice.

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

Hz

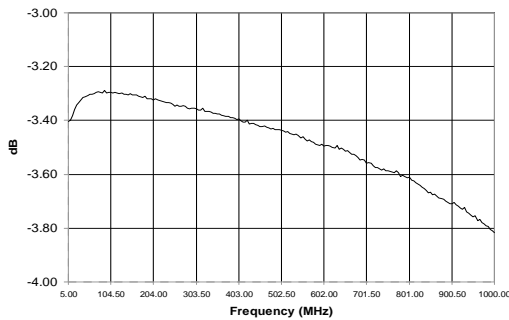
Functional Configuration

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

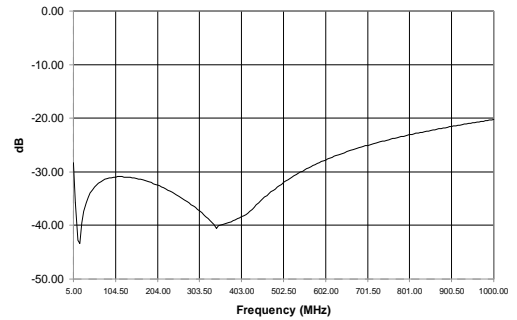
E

Typical Performance @ +25°C

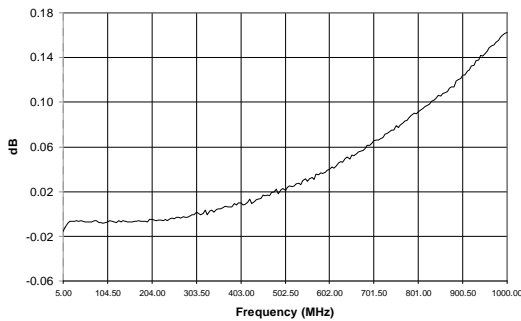
Insertion Loss



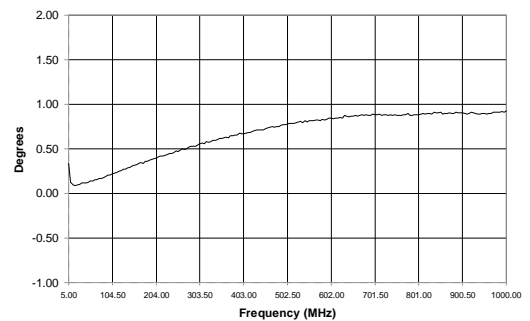
Isolation



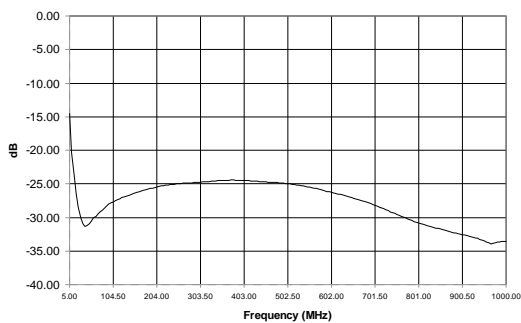
Amplitude Unbalance



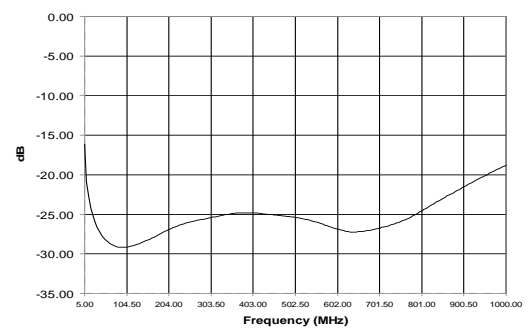
Phase Unbalance



Output Return Loss



Input Return Loss



2 Way 0° Power Divider, 5-1000 MHz

Rev E

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

SM-44 Package

