

## Plug-In Two-Way Power Divider, 5 - 500 MHz

Rev. V3

### Features

- Low Cost
- Convenient Plug-In Mounting
- Impedance: 50 Ohms Nominal
- Maximum Power Rating or Input Power: 1 Watt Max.
- Internal Load Dissipation: 0.125 Watts Max.
- MIL-STD-202 Screening Available

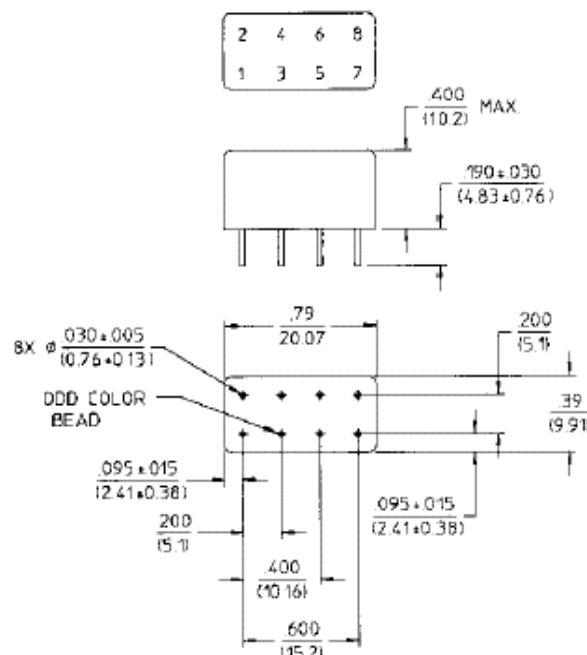
### RH-1

### Description

A Power Divider is ideally a lossless reciprocal device which can also perform vector summation of two or more signals and thus is sometimes called a power combiner or summer.

### Pin Configuration

Pin No.	Function	Pin No.	Function
1	$\Sigma$	5	Output
2	GND	6	Output
3	GND	7	GND
4	GND	8	GND



Dimensions in  $\phi$  are in mm  
Unless Otherwise Noted: XXX =  $\pm 0.010$  (XX =  $\pm 0.25$ )  
WEIGHT (APPROX): 0.23 OUNCES 6.5 GRAMS

### Electrical Specifications<sup>1</sup>: $T_A = -55^\circ\text{C}$ to $+85^\circ\text{C}$

Parameter	Test Conditions	Frequency	Units	Min	Typ	Max
Insertion Loss	Less Coupling	10 - 200 MHz 5 - 500 MHz	dB dB	— —	— —	0.5 1.0
Isolation	—	5 - 500 MHz	dB	18	—	—
Amplitude Balance	—	5 - 500 MHz	dB	—	—	0.2
Phase Balance	—	5 - 500 MHz	°	—	—	2
VSWR	All Ports	5 - 500 MHz	Ratio	—	—	1.5:1

1. All specifications apply with 50 ohm source and load impedance.

This product contains elements protected by United States Patent Number 3,428,920.

**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.

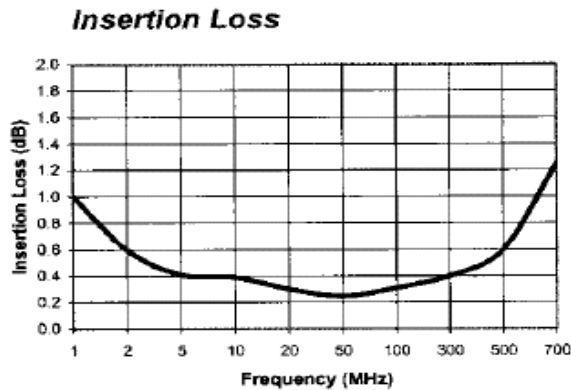
**PRELIMINARY:** Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce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

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Visit [www.macomtech.com](http://www.macomtech.com) for additional data sheets and product information.

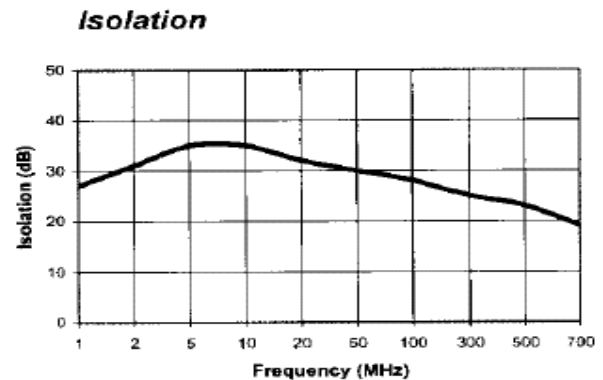
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## Typical Performance Curves

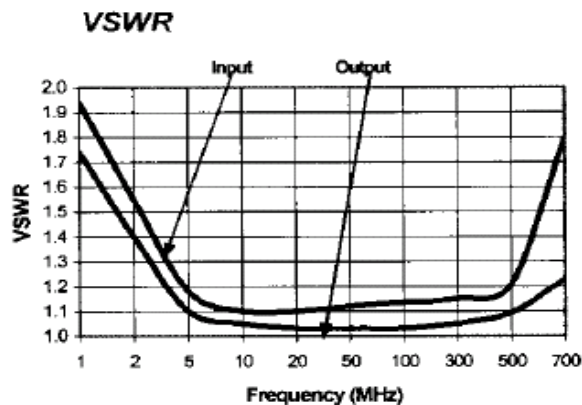
**Insertion Loss**



**Isolation**



**VSWR**



## Ordering Information

Part Number	Package
DS-318 PIN	RH-1