

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

**DS-318
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

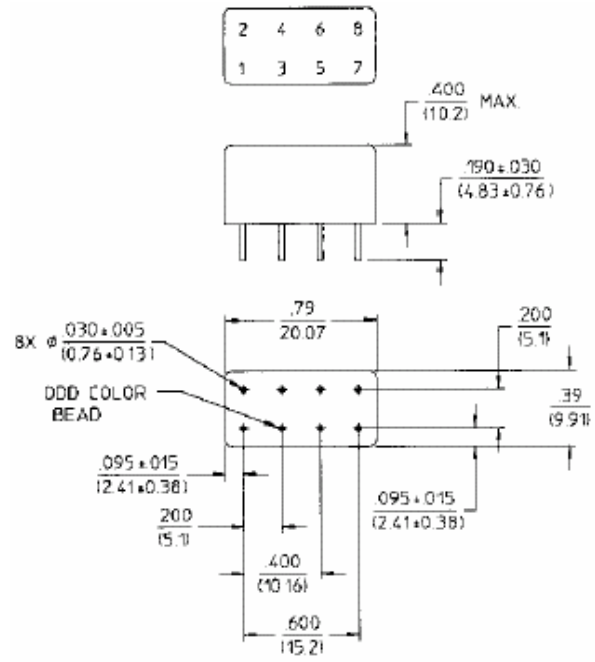
Description

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	Σ	5	Output
2	GND	6	Output
3	GND	7	GND
4	GND	8	GND

RH-1



Dimensions in ϕ are in mm
Unless Otherwise Noted: XXX = ± 0.010 (XX = ± 0.25)
WEIGHT (APPROX): 0.23 OUNCES 6.5 GRAMS

Electrical Specifications¹: $T_A = -55^\circ\text{C}$ to $+85^\circ\text{C}$

Parameter	Test Conditions	Frequency	Units	Min	Typ	Max
Insertion Loss	Less Coupling	10 - 200 MHz	dB	—	—	0.5
		5 - 500 MHz	dB	—	—	1.0
Isolation	—	5 - 500 MHz	dB	18	—	—
Amplitude Balance	—	5 - 500 MHz	dB	—	—	0.2
Phase Balance	—	5 - 500 MHz	$^\circ$	—	—	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.

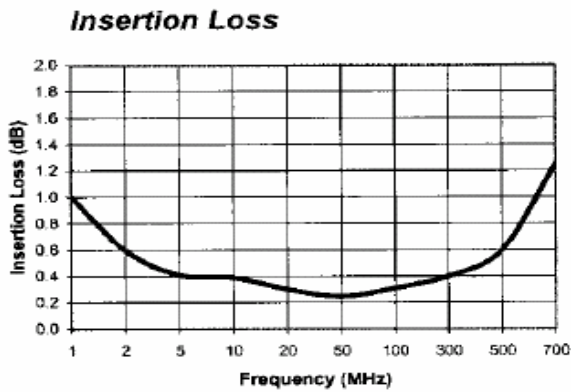
M/A-COM Inc. and its affiliates reserve the right to make changes to the product(s) or information contained herein without notice. M/A-COM makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does M/A-COM assume any liability whatsoever arising out of the use or application of any product(s) or information.

• **North America** Tel: 800.366.2266 / Fax: 978.366.2266
• **Europe** Tel: 44.1908.574.200 / Fax: 44.1908.574.300
• **Asia/Pacific** Tel: 81.44.844.8296 / Fax: 81.44.844.8298

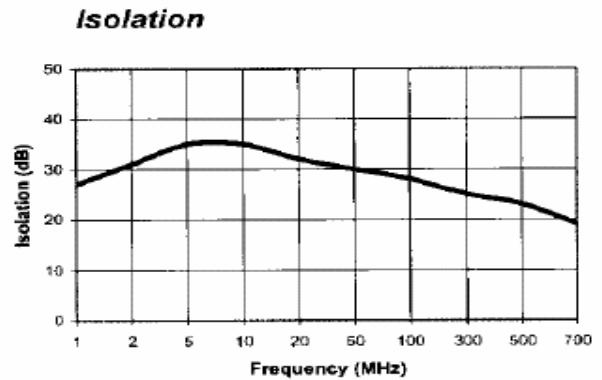
Visit www.macom.com for additional data sheets and product information.

Typical Performance Curves

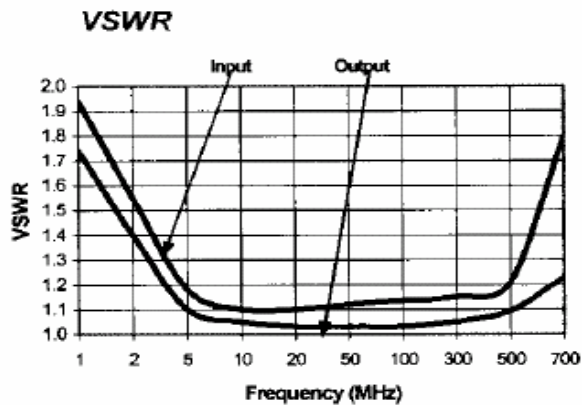
Insertion Loss



Isolation



VSWR



Ordering Information

Part Number	Package
DS-318 PIN	RH-1