

Electronics

Three-Way Power Divider, 3 - 700 MHz

Features

- Insertion Loss: 0.4 dB Typical Midband •
- Isolation: 28 dB Typical Midband •
- Input VSWR: 1.2:1 Typical •
- 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	GND	7 GND		
2	Output	8	Output	
3	GND	9	GND	
4	GND	10	GND	
5	Output	11	Input	
6	GND	12	GND	

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

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
Insertion Loss	Less Coupling	3 - 500 MHz 500 - 700 MHz	dB dB			0.70 1.0
Isolation	—	3 - 700 MHz	dB	20	_	—
Amplitude Balance	—	3 - 500 MHz 500 - 700 MHz	dB dB			0.25 0.4
Phase Balance	—	3 - 500 MHz 500 - 700 MHz	0 0	—		3 4
VSWR	All Ports	10 - 500 MHz 3 - 700 MHz	Ratio Ratio		_	1.3:1 1.5:1

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

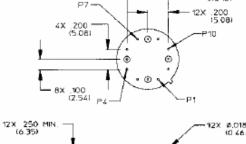
This product contains elements protected by United States Patent Number 3,428,920.

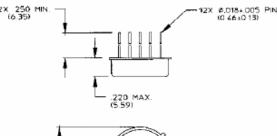
M/A-COM Inc. and its affiliates reserve the right to make changes to the product(s) or information contained herein without notice. M/A-COM makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does M/A-COM assume any liability whatsoever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

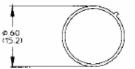
1

- 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

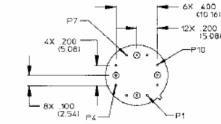
Visit www.macom.com for additional data sheets and product information.







Bottom of Case is AC Ground Dimensions in () are in ma Unless Otherwise Noted: XXX = ±0.010 (XX = ±0.25) .XX = ±0.02 (X = ±0.5)



TO-8-2





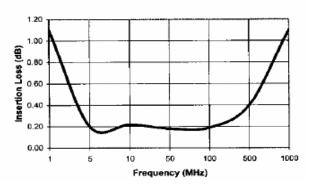
Three-Way Power Divider, 3 - 700 MHz



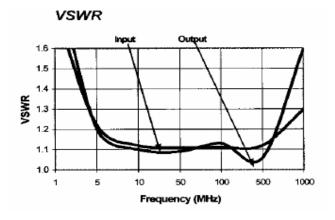
Typical Performance Curves

Insertion Loss



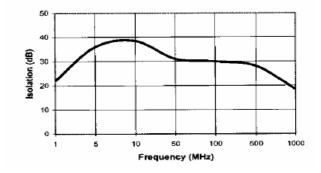


VSWR



Isolation

Isolation



Ordering Information

Part Number	Package		
DS-328 PIN	TO-8-2		

2

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.