

Electronics

# Flatpack Four-Way Power Divider, 25 - 1000 MHz

## Features

- Insertion Loss: 0.5 dB Typical Midband
- Isolation: 38 dB Typical Midband
- VSWR: 1.2:1 Typical Midband
- Impedance: 50 Ohms Nominal
- Maximum Power Rating or Input Power: 1 Watt Max.
- Internal Load Dissipation: 0.05 Watts Max.
- MIL-STD-883 Screening Available

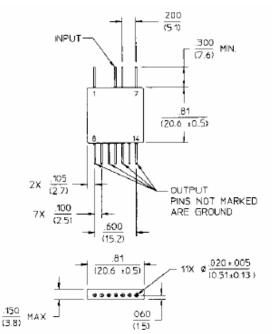
### Description

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	8	Output	
2	GND	9	GND	
3	GND	10	Output	
4	Input	11	GND	
5	GND	12	Output	
6	GND	13	GND	
7	GND	14	Output	

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



Dimensions in 0 are in imm Unless Otherwise Noted: XXX - ±0.010 (XX - ±0.25) .XX - ±0.02 (X - ±0.5) WEIGHT (APPROX): 0.21 OUNCES - 6 GRAM5

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
Insertion Loss	Less Coupling	25 - 200 MHz 25 - 1000 MHz	dB dB			0.75 1.0
Isolation	—	25 - 1000 MHz	dB	20		—
Amplitude Balance	—	25 - 1000 MHz	dB			0.25
Phase Balance	_	25 - 500 MHz 500 - 1000 MHz	0			3 6
VSWR	Input Output	25 - 500 MHz 500 - 1000 MHz	Ratio Ratio			1.3:1 1.4:1

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

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

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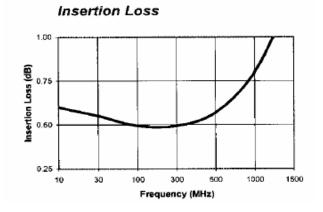






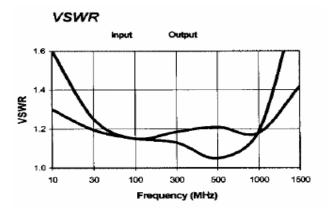
## **Typical Performance Curves**

#### Insertion Loss

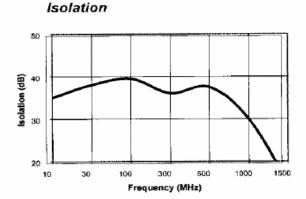


VSWR

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#### Isolation



## **Ordering Information**

Part Number	Package		
DS-324 PIN	FP-5		

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