

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

Rev. V4

#### **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

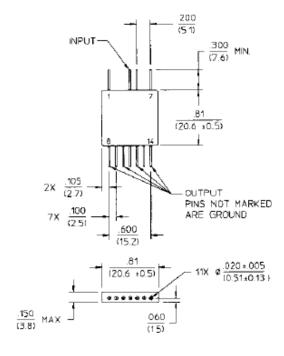
## Description

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	None	9	GND	
3	None	10	Output	
4	Input	11	GND	
5	GND	12	Output	
6	None	13	GND	
7	GND	14	Output	

#### FP-5



Omensians in 0 are in irrin Unless Otherwise Noted: XXX =  $\pm 0.010$  (XX =  $\pm 0.25$ ) .XX =  $\pm 0.02$  (X =  $\pm 0.5$ ) WEIGHT (APPROX): 0.21 QUNCES = 6 GRAMS

## Electrical Specifications<sup>1</sup>: $T_A = -55$ °C to +85°C

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

<sup>1.</sup> All specifications apply with 50 ohm source and load impedance. This product contains elements protected by United States Patent Number 3,428,920.

Commitment to produce in volume is not guaranteed.

<sup>•</sup> India Tel: +91.80.4155721 • China Tel: +86.21.2407.1588

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



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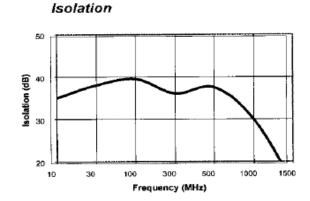
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## **Typical Performance Curves**

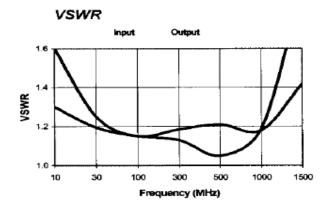
#### **Insertion Loss**

## Insertion Loss 1.00 Insertion Loss (dB) 0.25 1000 1500 500 10 30 100 300 Frequency (MHz)

#### Isolation



#### **VSWR**



## **Ordering Information**

Part Number	Package		
DS-324 PIN	FP-5		

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