

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

Rev. V5

#### **Features**

• Insertion Loss: 0.5 dB Typical Midband

Isolation: 38 dB Typical Midband

VSWR: 1.2:1 Typical MidbandImpedance: 50 Ohms Nominal

• Maximum Power Rating or Input Power: 1 Watt Max.

• Internal Load Dissipation: 0.05 Watts Max.

• MIL-STD-883 Screening Available

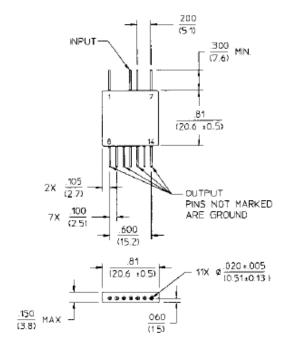
## Description

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



Omensions in 0 are in irvn. 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	ı	25 - 1000 MHz	dB	20	1	_
Amplitude Balance	I	25 - 1000 MHz	dB	ı	ı	0.25
Phase Balance	-	25 - 500 MHz 500 - 1000 MHz	0			3 6
VSWR	Input Output	25 to 1000MHz	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.

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



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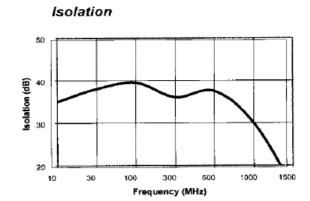
## **Typical Performance Curves**

#### **Insertion Loss**

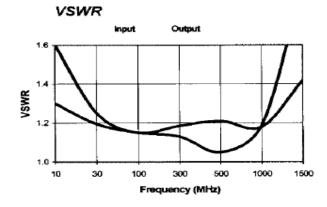
### Insertion Loss 1.00 Insertion Loss (dB) 0.25 500 1000 1500 100 300 10 30

Frequency (MHz)

#### Isolation



#### **VSWR**



## **Ordering Information**

Part Number	Package		
DS-324 PIN	FP-5		

<sup>•</sup> India Tel: +91.80.4155721 Visit www.macomtech.com for additional data sheets and product information.