

# Flatpack Two-Way Power Divider 5-1000 MHz

Rev. V3

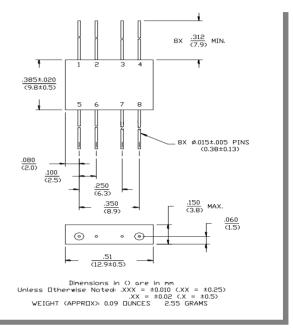
#### **Features**

- n Broadband, IN Phase Divider
- n Low Loss: 0.3 dB Typical
- n Amplitude Balance: 0.05 dB Typical
- n Impedance: 50 Ohms Nominal
- n Maximum Power Rating or Input Power: 1 Watt Max.
- n Internal Load Dissipation: 0.05 Watts Max.
- n MIL-STD-883 Screening Available

### **Description**

A Power Divider is ideally a loss less reciprocal device which can also perform vector summation of two or more signals and thus is sometimes called a power combiner or summer.

## **Functional Schematic**



### Pin Configuration<sup>3</sup>

Pin No.	Function	Pin No.	Function	
1	Σ	11	GND	
2	GND	12	GND	
3	GND	13	GND	
4	Output C	14	Output D	

### Ordering Information<sup>1,2</sup>

Part Number	Package		
DS-327 PIN	FP-2		

- 1. Reference Application Note M513 for reel size information.
- 2. All sample boards include x loose parts.

- MACOM recommends connecting unused package pins to ground.
- The exposed pad centered on the package bottom must be connected to RF, DC and thermal ground.

<sup>\*</sup> Restrictions on Hazardous Substances, European Union Directive 2011/65/EU.



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

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
Insertion Loss	Less Coupling	5 - 500 MHz 500 - 1000 MHz	dB dB	_	_	0.5 1.0
Isolation	_	5 - 500 MHz 500 - 1000 MHz	dB dB	25 20	_	_
Amplitude Balance	_	5 - 1000 MHz	dB	_	_	0.2
Phase Balance	_	5 - 500 MHz 500 - 1000 MHz	0	_	_	2 3
VSWR	Input Output	10 - 500 MHz 5 - 1000 MHz	Ratio Ratio		_	1.3:1 1.5:1

<sup>1.</sup> All specifications apply with 50 ohm source and load impedance.

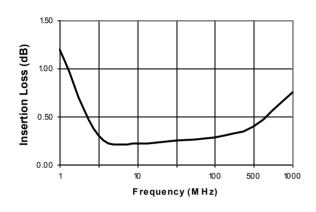


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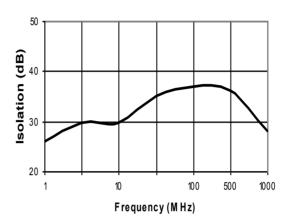
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## **Typical Performance Curves**

#### **Insertion Loss**



#### Isolation



#### **VSWR**

