#### 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

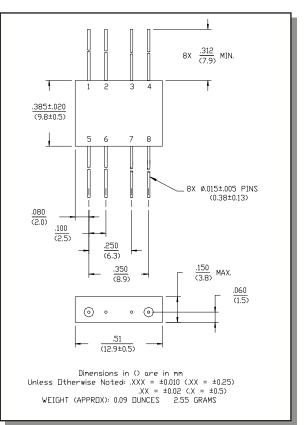
### Description

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.

# **Pin Configuration**

| Pin No. | Function | Pin No. Function |          |  |
|---------|----------|------------------|----------|--|
| 1       | Σ        | 5                | GND      |  |
| 2       | GND      | 6                | GND      |  |
| 3       | GND      | 7                | GND      |  |
| 4       | Output C | 8                | Output D |  |

### FP-2



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

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

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

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

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### **Typical Performance Curves**

#### **Insertion Loss**

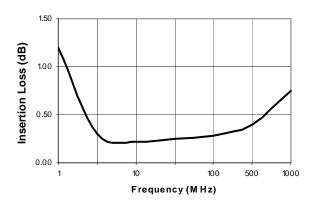
**VSWR** 

1.50

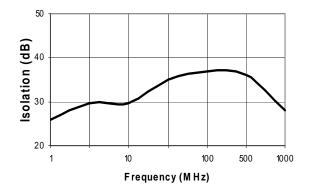
1.00

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VSWR 1.25



#### Isolation



## **Ordering Information**

| Part Number | Package |  |  |
|-------------|---------|--|--|
| DS-327 PIN  | FP-2    |  |  |

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10

Frequency (MHz)

100

500

1000

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