

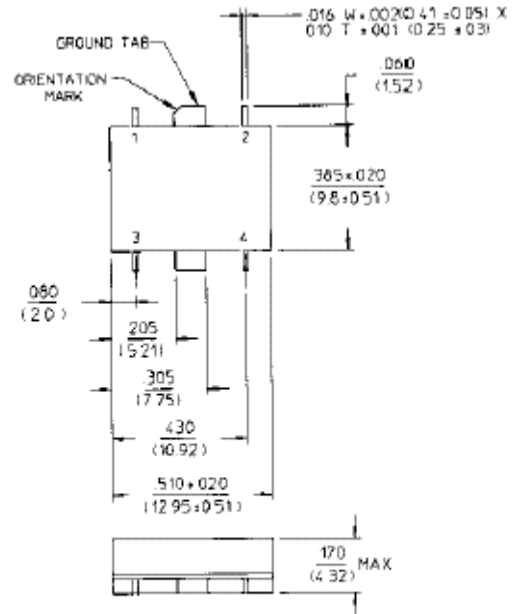
## Surface Mount Two-Way Power Divider, 10 - 500 MHz

Rev. V3

### Features

- Fully Hermetic Package
- Phase Balance: 0.5° Typical
- Isolation: 40 dB Typical Midband
- VSWR: 1.05:1 Typical Midband
- Impedance: 50 Ohms Nominal
- Maximum Power Rating or Input Power: 1 Watt Max.
- Internal Load Dissipation: 0.05 Watts Max.
- MIL-STD-202 Screening Available

### SF-1



Dimensions in ( ) are in mm  
Unless Otherwise Noted: .XXX = ±0.010  
XX = ±0.02  
WEIGHT (APPROX): 0.07 OUNCES 2 GRAMS

### 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       | Σ IN     | 3       | GND      |
| 2       | Output C | 4       | Output D |

### Electrical Specifications<sup>1</sup>: T<sub>A</sub> = -55°C to +85°C

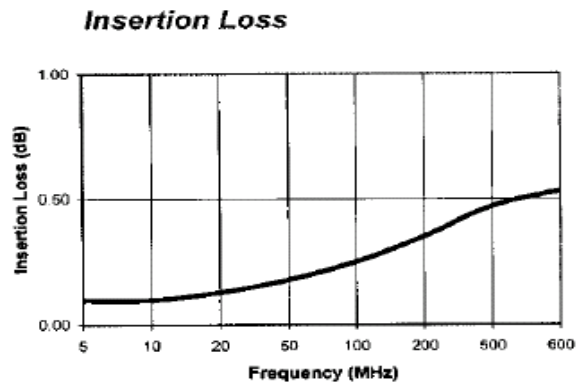
| Parameter         | Test Conditions | Frequency    | Units | Min | Typ | Max   |
|-------------------|-----------------|--------------|-------|-----|-----|-------|
| Insertion Loss    | Less Coupling   | 10 - 500 MHz | dB    | —   | —   | 0.6   |
| Isolation         | —               | 10 - 500 MHz | dB    | 25  | —   | —     |
| Amplitude Balance | —               | 10 - 500 MHz | dB    | —   | —   | 0.15  |
| Phase Balance     | —               | 10 - 500 MHz | °     | —   | —   | 2     |
| VSWR              | All Ports       | 10 - 500 MHz | Ratio | —   | —   | 1.4:1 |

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

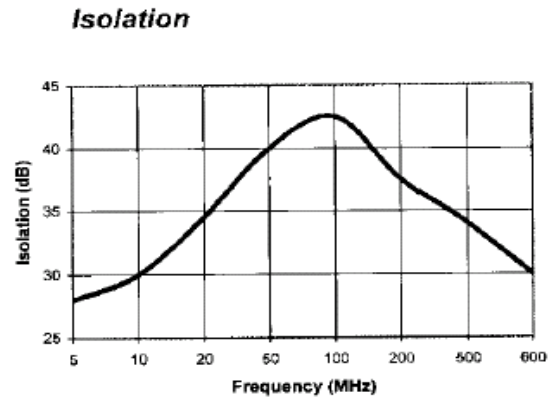
This product contains elements protected by United States Patent Number 3,428,920.

## Typical Performance Curves

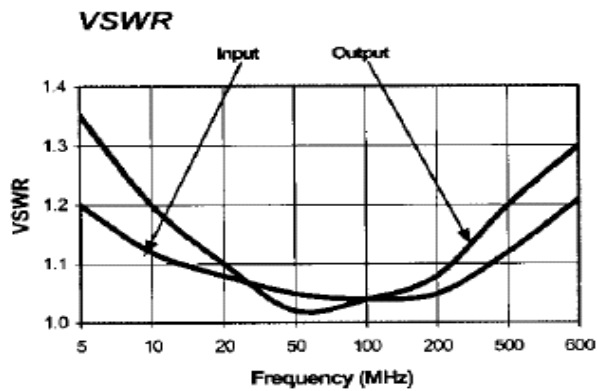
*Insertion Loss*



*Isolation*



*VSWR*



## Ordering Information

| Part Number | Package |
|-------------|---------|
| DSS-333 PIN | SF-1    |

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