

# 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

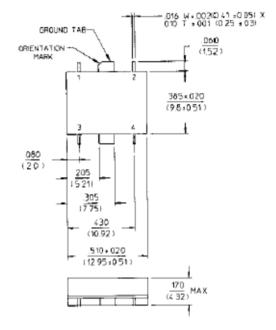
## **Description**

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	ΣΙΝ	3	GND
2	Output C	4	Output D

### SF-1



| Dimensions in thore of time | Unless Otherwise Notes: XXX = 10.010 | XX = 20.02 | WEIGHT (APPROX): 0.07 DUNCES | 2 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	10 - 500 MHz	dB	_	_	0.6
Isolation	I	10 - 500 MHz	dB	25	_	
Amplitude Balance	ı	10 - 500 MHz	dB	1	_	0.15
Phase Balance	_	10 - 500 MHz	ō	_	_	2
VSWR	All Ports	10 - 500 MHz	Ratio	_	_	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.



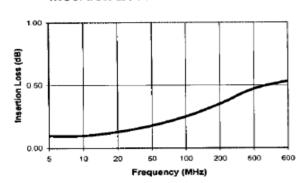
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## **Typical Performance Curves**

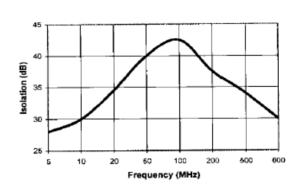
#### Insertion Loss

### Insertion Loss

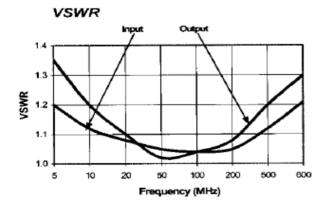


#### Isolation

#### Isolation



#### **VSWR**



## **Ordering Information**

Part Number	Package		
DSS-333 PIN	SF-1		

**DSS-333** 



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