



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

DSS-333 V3

#### **Features**

Fully Hermetic Package
Phase Balance: 0.5° Typical

• Isolation: 40 dB Typical Midband

VSWR: 1.05:1 Typical MidbandImpedance: 50 Ohms Nominal

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

• Internal Load Dissipation: 0.05 Watts Max.

• MIL-STD-202 Screening Available

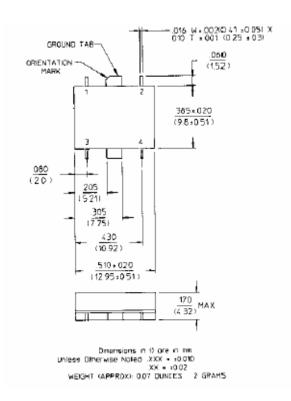
### **Description**

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



## 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	_	10 - 500 MHz	dB	25	_	_
Amplitude Balance	I	10 - 500 MHz	dB	ı	_	0.15
Phase Balance	П	10 - 500 MHz	o		_	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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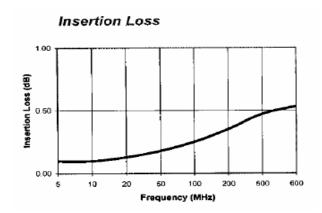


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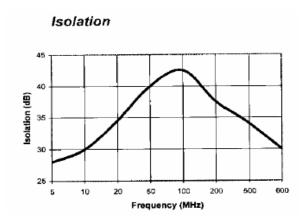
DSS-333

## **Typical Performance Curves**

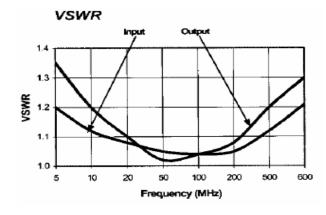
#### Insertion Loss



#### Isolation



#### **VSWR**



## **Ordering Information**

Part Number	Package
DSS-333 PIN	SF-1

<sup>•</sup> Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300

Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298