

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

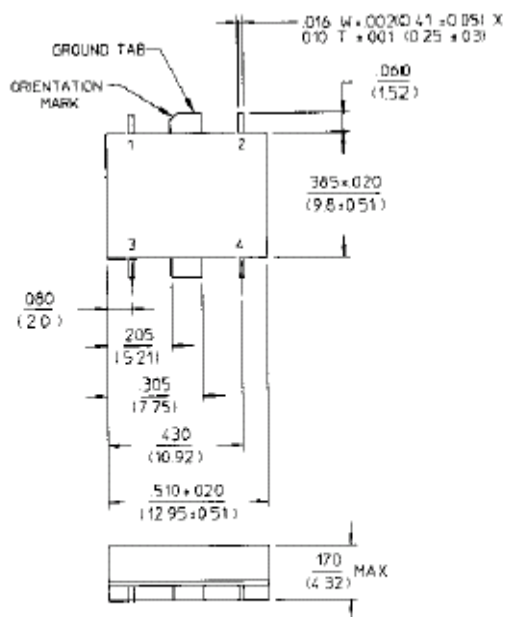
SF-1

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



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

Electrical Specifications¹: T_A = -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.

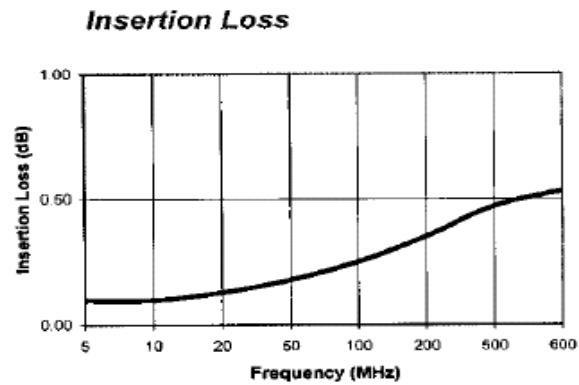
This product contains elements protected by United States Patent Number 3,428,920.

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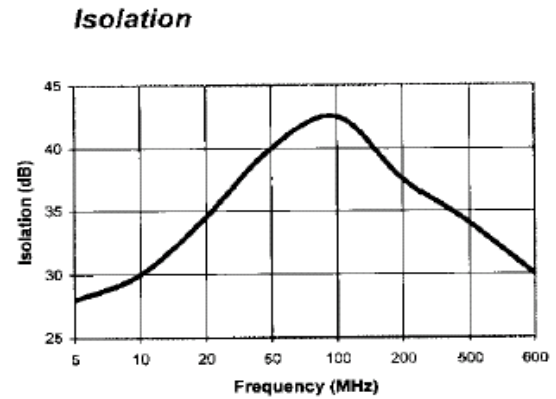
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Typical Performance Curves

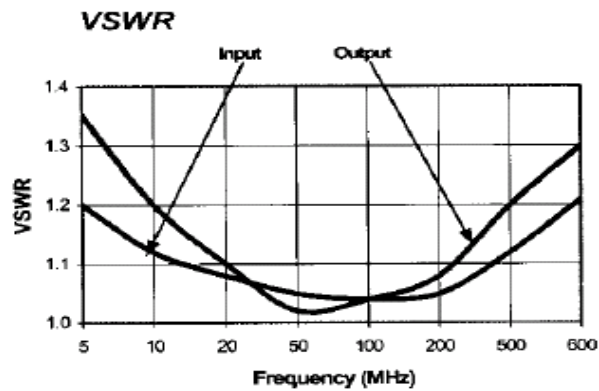
Insertion Loss



Isolation



VSWR



Ordering Information

Part Number	Package
DSS-333 PIN	SF-1

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