

Surface Mount Two-Way Power Divider, 5 - 1000 MHz

Rev. V4

Features

- Fully Hermetic Package
- Low Loss: 0.3 dB Typical
- Amplitude Balance: 0.05 dB Typical
- 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

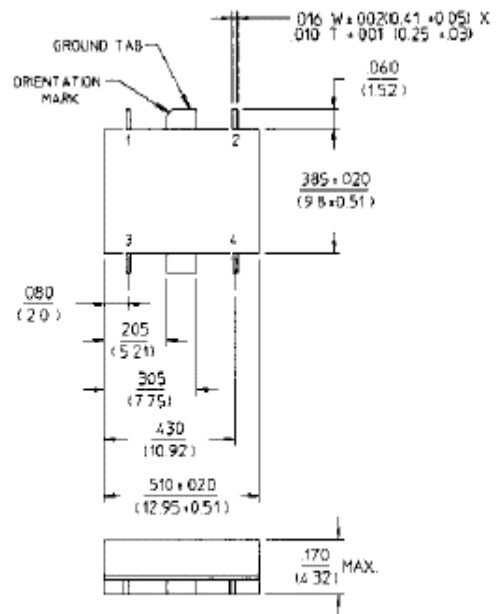
SF-1

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	3	GND
2	Output C	4	Output D



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

Electrical Specifications¹: $T_A = -55^\circ\text{C}$ to $+85^\circ\text{C}$

Parameter	Test Conditions	Frequency	Units	Min	Typ	Max
Insertion Loss	Less Coupling	5 - 500 MHz	dB	—	—	0.5
		500 - 1000 MHz	dB	—	—	1.0
Isolation	—	5 - 500 MHz	dB	20	—	—
		500 - 1000 MHz	dB	16	—	—
Amplitude Balance	—	5 - 1000 MHz	dB	—	—	0.3
Phase Balance	—	5 - 500 MHz	$^\circ$	—	—	2
		500 - 1000 MHz	$^\circ$	—	—	3
VSWR	All Ports	10 - 500 MHz	Ratio	—	—	1.4:1
		5 - 1000 MHz	Ratio	—	—	1.6:1

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

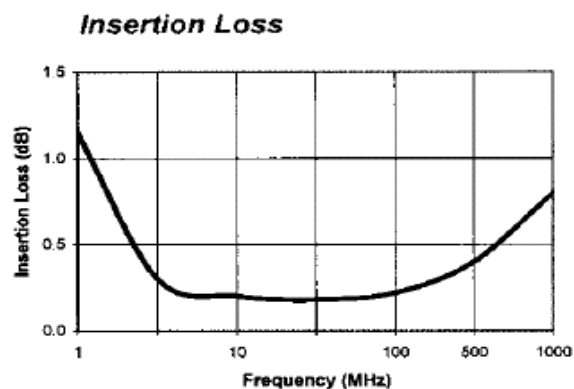
This product contains elements protected by United States Patent Number 3,428,920.

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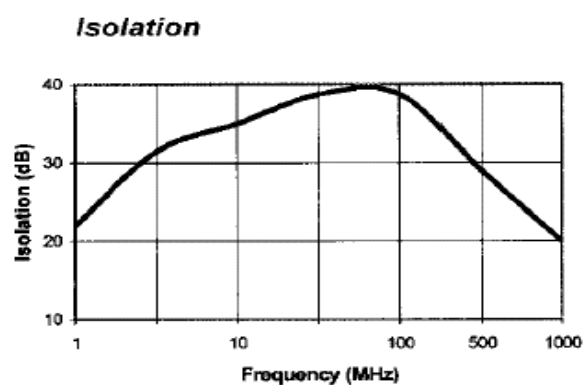
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Typical Performance Curves

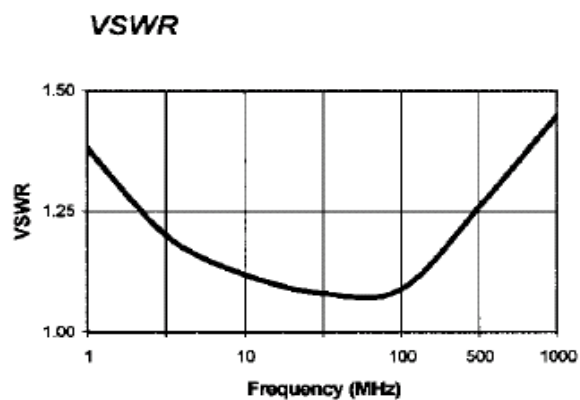
Insertion Loss



Isolation



VSWR



Ordering Information

Part Number	Package
DSS-327 PIN	SF-1

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