

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

Rev. V4

Features

Fully Hermetic PackageLow 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

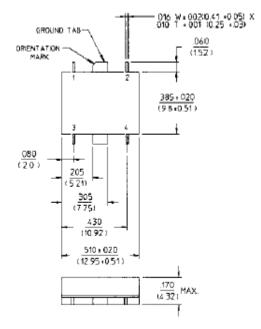
Description

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

SF-1



Dimensions in 0 are in min Unless Otherwise Noted: XXX = ±0.010 XX = ±0.02 WEISHT (APPROX): 0.07 OUNCES = 2 GRAMS

Electrical Specifications¹: $T_A = -55$ °C to +85°C

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
Insertion Loss	Less Coupling	5 - 500 MHz 500 - 1000 MHz	dB dB		_	0.5 1.0
Isolation	_	5 - 500 MHz 500 - 1000 MHz	dB dB	20 16	_	_
Amplitude Balance	_	5 - 1000 MHz	dB	_	_	0.3
Phase Balance	_	5 - 500 MHz 500 - 1000 MHz	0	_	_	2 3
VSWR	All Ports	10 - 500 MHz 5 - 1000 MHz	Ratio Ratio	_	_	1.4:1 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.

ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed.

PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology

Solutions has under development. Performance is based on engineering tests. Specifications are

typical. Mechanical outline has been fixed. Engineering samples

Commitment to produce in volume is not gu

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 Visit www.macomtech.com for additional data sheets and product information.



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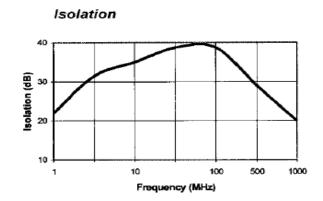
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Typical Performance Curves

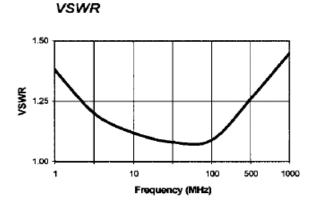
Insertion Loss

Insertion Loss Insertion Loss (dB) 1.0 0.0 10 50D 1000 Frequency (MHz)

Isolation



VSWR



Ordering Information

Part Number	Package		
DSS-327 PIN	SF-1		

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