

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 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

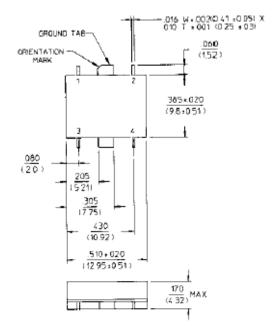
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A Power Divider is ideally a lossless reciprocal device which can also perform vector summation of two or more signals and thus is sometimes called a power combiner or summer.

Pin Configuration

Pin No.	Function	Pin No.	Function
1	ΣΙΝ	3	GND
2	Output C	4	Output D

SF-1



Dimensions in to one in the Unless Otherwise Noted: XXX = ±0.000 XX = ±0.002 WEIGHT (APPROX): 0.07 QUINTES 2 GRAMS

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

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
Insertion Loss	Less Coupling	10 - 500 MHz	dB	_	_	0.6
Isolation	ı	10 - 500 MHz	dB	25	1	_
Amplitude Balance	I	10 - 500 MHz	dB	ı	ı	0.15
Phase Balance		10 - 500 MHz	0			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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 Visit www.macomtech.com for additional data sheets and product information.



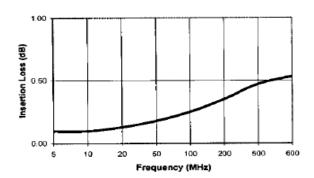
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Typical Performance Curves

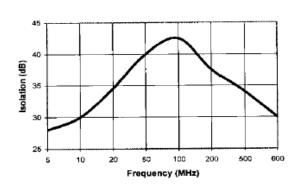
Insertion Loss

Insertion Loss



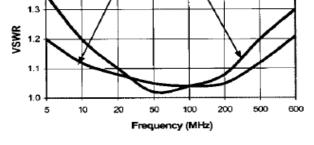
Isolation

Isolation



VSWR

VSWR



Ordering Information

Part Number	Package		
DSS-333 PIN	SF-1		

Commitment to produce in volume is not guaranteed.

[•] India Tel: +91.80.4155721

Mouser Electronics

Authorized Distributor

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MACOM:

DSS-333-PIN