

Two-Way Power Divider, 10 - 2000 MHz

Rev. V3

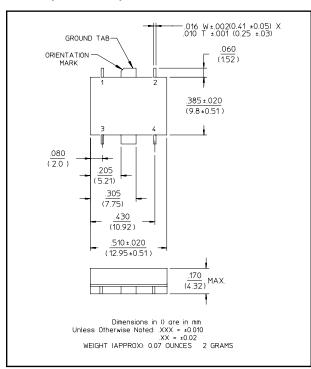
Features

- Fully Hermetic Package
- Loss: 0.6 dB Typical Midband
- Isolation: 28 dB Typical Midband
- VSWR: 1.2:1 Typical Midband
- Impedance: 50 Ohms Nominal
- Maximum Power Rating or Input Power: 250 mW
- Internal Load Dissipation: 50 mW Max.
- MIL-STD-202 Screening Available

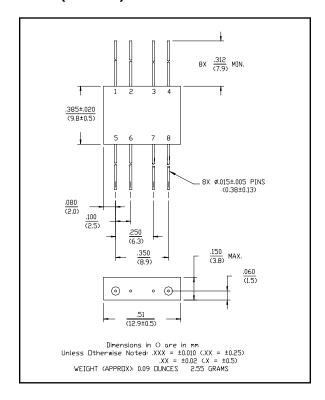
Description

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.

SF-1 (DSS-313)



FP-2 (DS-313)



Pin Configuration (DS-313)

Pin No.	Function	Pin No.	Function
1	Σ	5	GND
2	GND	6	GND
3	GND	7	GND
4	Output C	8	Output D

Pin Configuration (DSS-313)

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

• North America Tel: 800.366.2266 • Europe Tel: +353.21.244.6400

DS-/DSS-313



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DS-313 Electrical Specifications¹: $T_A = -55$ °C to +85°C

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
Insertion Loss	Less Coupling	20 - 1000 MHz 10 - 1500 MHz 1500 - 2000 MHz	dB dB dB	_ _ _	_ _ _	1.1 1.3 1.8
Isolation	_	20 - 1000 MHz 10 - 1500 MHz 1500 - 2000 MHz	dB dB dB	23 18 12	_ _ _	_ _ _
Amplitude Balance	_	20 - 1000 MHz 10 - 1500 MHz 1500 - 2000 MHz	dB dB dB	_ _ _	_ _ _	0.3 0.4 0.6
Phase Balance	-	20 - 1000 MHz 10 - 1500 MHz 1500 - 2000 MHz	0	_ _ _	_ _ _	4 6 8
VSWR	All Ports	20 - 1000 MHz 10 - 1500 MHz 1500 - 2000 MHz	Ratio Ratio Ratio	_ _ _	_ _ _	1.5:1 1.6:1 1.8:1

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

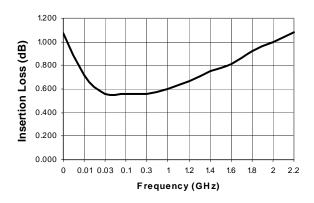


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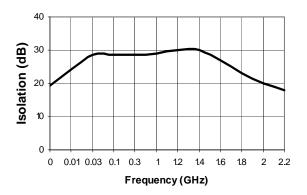
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Typical Performance Curves

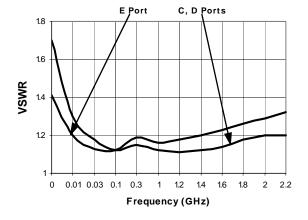
Insertion Loss - Ports Σ-C, Σ-D



Isolation - Ports C-D



VSWR



Ordering Information

Part Number	Package
DS-313 PIN	FP-2
DSS-313 PIN	SF-1

Commitment to produce in volume is not guaranteed.