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We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Two-Way Power Divider 10-2000MHz

Rev. V3

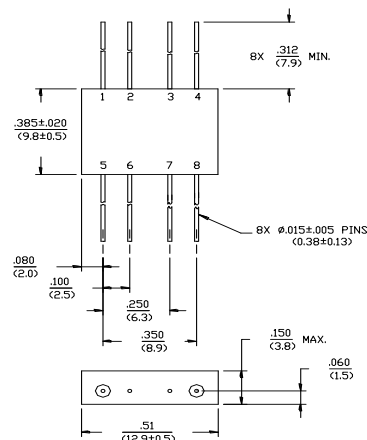
Features

- Fully Hermetic Package
- Loss: 0.6 dB Typical Mid-band
- Isolation: 28 dB Typical Mid-band
- VSWR: 1.2:1 Typical Mid-band
- Impedance: 50 Ohms Nominal
- Maximum Power Rating or Input Power: 250 mW Max.
- 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.

FP-2 (DS-313)

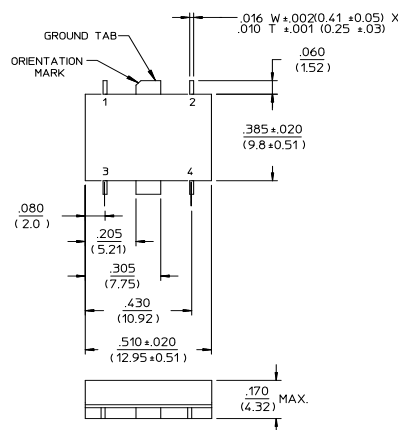


Dimensions in ϕ are in mm
Unless Otherwise Noted: XXX = ± 0.010 (XX = ± 0.25)
XX = ± 0.02 (X = ± 0.5)
WEIGHT (APPROX): 0.09 OUNCES 2.55 GRAMS

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

SF-1 (DSS-313)



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

Pin Configuration (DSS-313)

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

Ordering Information

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

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

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

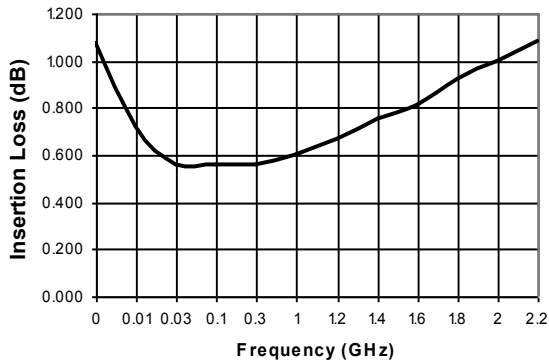
DSS-313 Electrical Specifications¹: T_A = -55°C to +85°C

Parameter	Test Conditions	Frequency	Units	Min	Typ.	Max
Insertion Loss	Less Coupling	20 - 1000 MHz	dB	—	—	1.1
		10 - 1500 MHz	dB	—	—	1.3
		1500 - 2000 MHz	dB	—	—	1.8
Isolation	—	20 - 1000 MHz	dB	22	—	—
		10 - 1500 MHz	dB	18	—	—
		1500 - 2000 MHz	dB	12	—	—
Amplitude Balance	—	20 - 1000 MHz	dB	—	—	0.3
		10 - 1500 MHz	dB	—	—	0.4
		1500 - 2000 MHz	dB	—	—	0.6
Phase Balance	—	20 - 1000 MHz	°	—	—	5
		10 - 1500 MHz	°	—	—	8
		1500 - 2000 MHz	°	—	—	11
VSWR	All Ports	20 - 1000 MHz	Ratio	—	—	1.5:1
		10 - 1500 MHz	Ratio	—	—	1.6:1
		1500 - 2000 MHz	Ratio	—	—	1.8:1

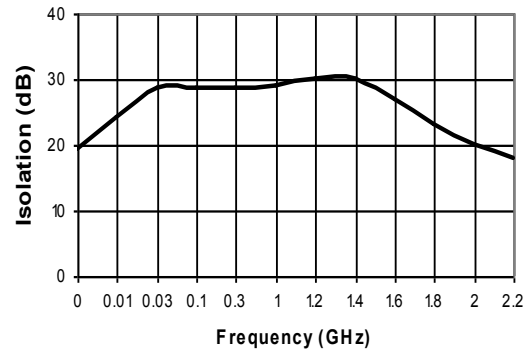
1. All specifications apply with 50 ohm source and load impedance.

Typical Performance Curves

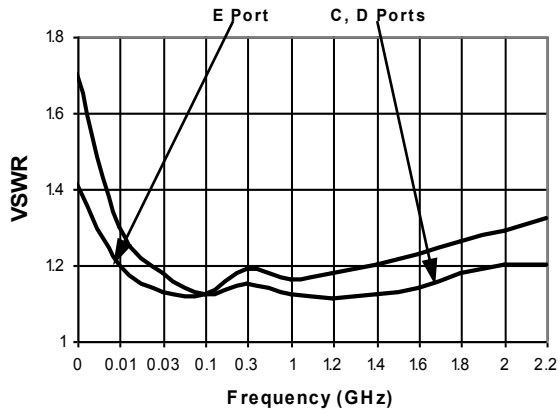
Insertion Loss - Ports Σ -C, Σ -D



Isolation - Ports C-D



VSWR



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