

3-Way Power Divider 1 - 300 MHz

Rev. V4

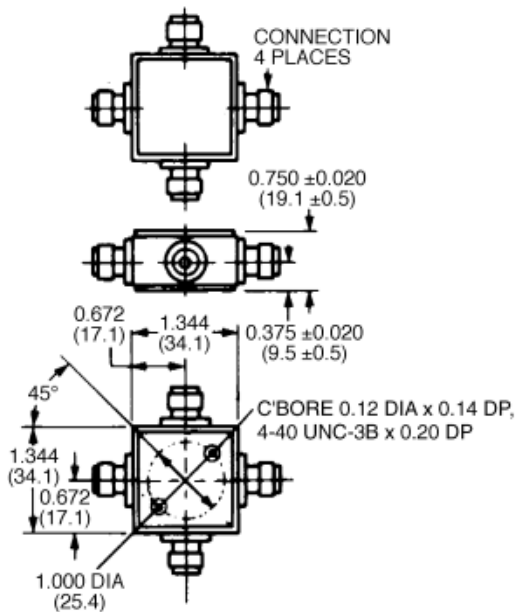
Features

- Low Loss: 0.5 dB
- Impedance: 50 Ω Nominal
- Power Rating: 1 W Maximum
- Internal Load Dissipation: 0.05 W Maximum
- Flatpack and Connectorized Packages
- MIL-STD-202 Screening Available

Description

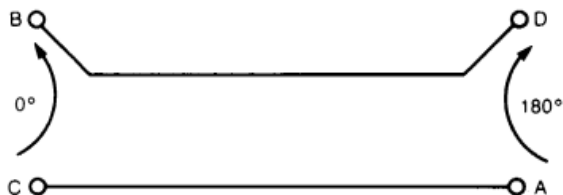
A power divider is ideally a lossless reciprocal device which can also perform vector summation of two or more signals and thus is sometimes called a power combiner or summer.

C-8 (DS-308)

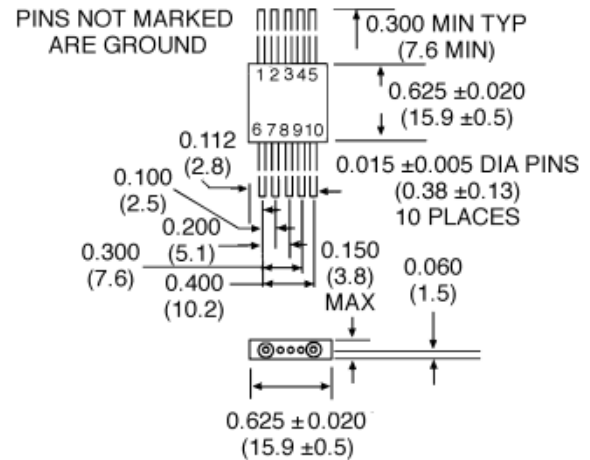


Dimensions in () are in mm.
Unless Otherwise Noted: .xxx = ±0.015 (.x = ±0.4)
WEIGHT (APPROX.): 2.5 OUNCES 71 GRAMS

Pin Configuration (DS-308)



FP-3 (DS-117)



Dimensions in () are in mm.
Unless Otherwise Noted: .xxx = ±0.010 (.xx = ±0.25)
.xx = ±0.02 (.x = ±0.5)
WEIGHT (APPROX.): 0.12 OUNCES 3.4 GRAMS

Pin Configuration (DS-117)

Pin No.	Function
1, 2, 4, 5, 7, 9	Ground
3	Input
6	Output
8	Output
10	Output

Ordering Information

Part Number	Package
DS-117 PIN	FP-3
DS-308 BNC	C-8
DS-308 N	C-8
DS-308 SMA	C-8

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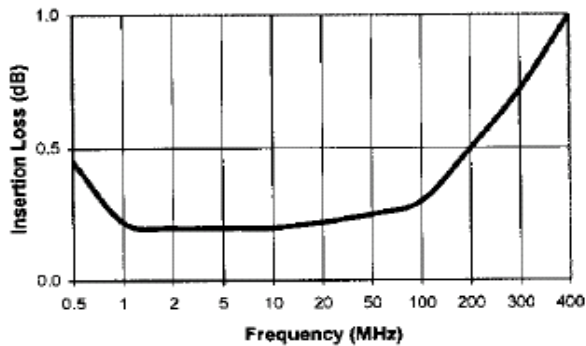
DS-113 Electrical Specifications¹: $T_A = -55^\circ\text{C}$ to $+85^\circ\text{C}$

Parameter	Test Conditions	Frequency (MHz)	Units	Min.	Typ.	Max.
Insertion Loss	Less Coupling	2 - 200 1 - 300	dB	—	—	0.75 1.0
Isolation	—	2 - 200 1 - 300	dB	30 20	—	—
Amplitude Balance	—	1 - 300	dB	—	—	0.25
Phase Balance	—	2 - 200 1 - 300	°	—	—	3 4
VSWR	All Ports	2 - 200 1 - 300	Ratio	—	—	1.3:1 1.5:1

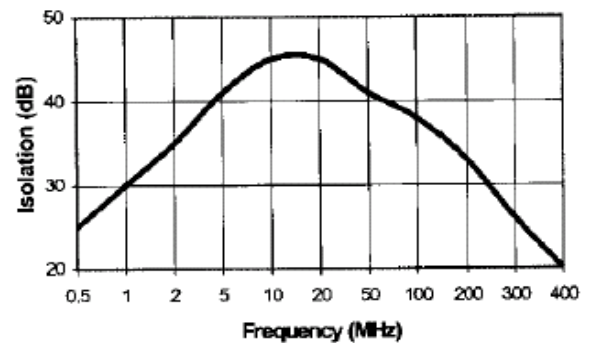
1. All specifications apply with 50 Ω source and load impedance.

Typical Performance Curves

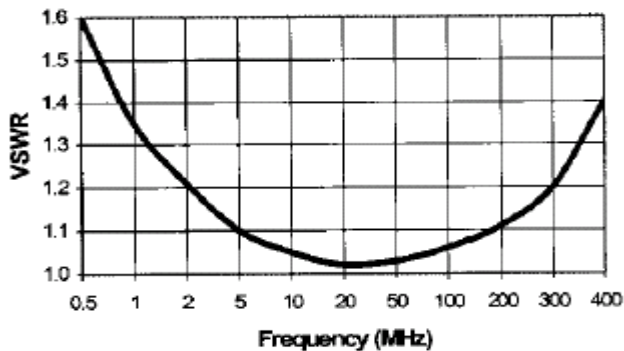
Insertion Loss



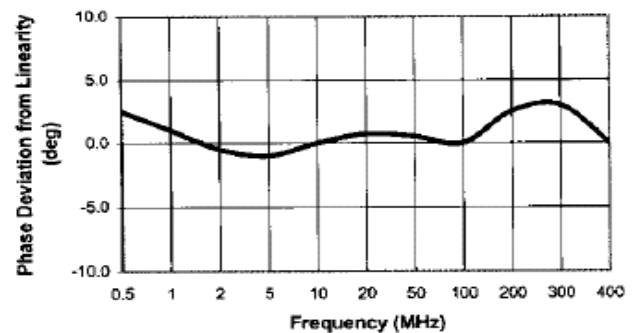
Isolation



VSWR



Phase Linearity



2

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