DS-117 / DS-308



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

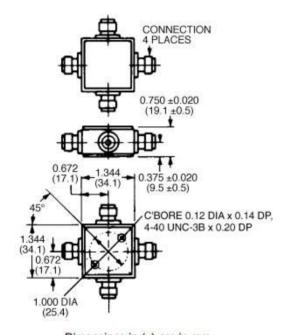
Flatpack and Connectorized Packages

MIL-STD-202 Screening Available

Description

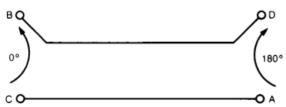
A power divider is ideally a lossless reciprocal device which can also perform vector summation of two or more signals and thus is sometimes called a power combiner or summer.

C-8 (DS-308)

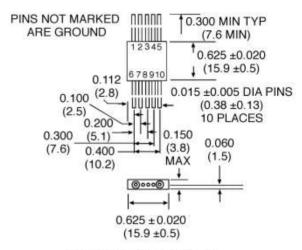


Dimensions in () are in mm. Unless Otherwise Noted: $.xxx = \pm 0.015$ ($.x = \pm 0.4$) WEIGHT (APPROX.): 2.5 OUNCES 71 GRAMS

Pin Configuration (DS-308)



FP-3 (DS-117)



Dimensions in () are in mm. Unless Otherwise Noted: $.xxx = \pm 0.010 (.xx = \pm 0.25)$ $.xx = \pm 0.02 (.x = \pm 0.5)$ 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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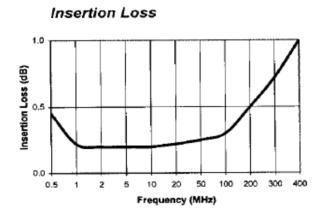
Rev. V4

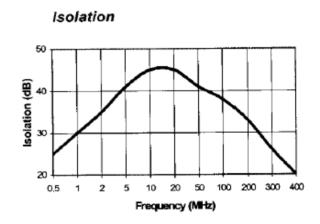
DS-113 Electrical Specifications¹: $T_A = -55$ °C to +85°C

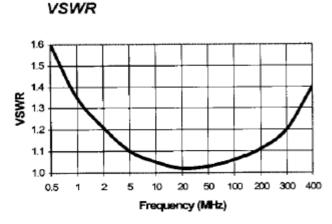
Parameter	Test Conditions	Frequency (MHz)	Units	Min.	Тур.	Max.
Insertion Loss	Less Coupling	2 - 200 1 - 300	dB	_	_	0.75 1.0
Isolation	_	2 - 200 1 - 300	dB	30 20	_	_
Amplitude Balance	_	1 - 300	dB	_	_	0.25
Phase Balance	_	2 - 200 1 - 300	۰	_	_	3 4
VSWR	All Ports	2 - 200 1 - 300	Ratio	_	_	1.3:1 1.5:1

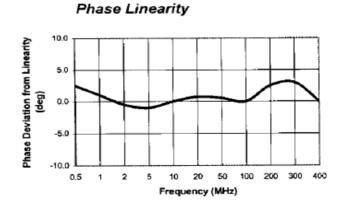
^{1.} All specifications apply with 50 Ω source and load impedance.

Typical Performance Curves









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