

Eight-Way Power Divider, 2 - 500 MHz

Rev. V3

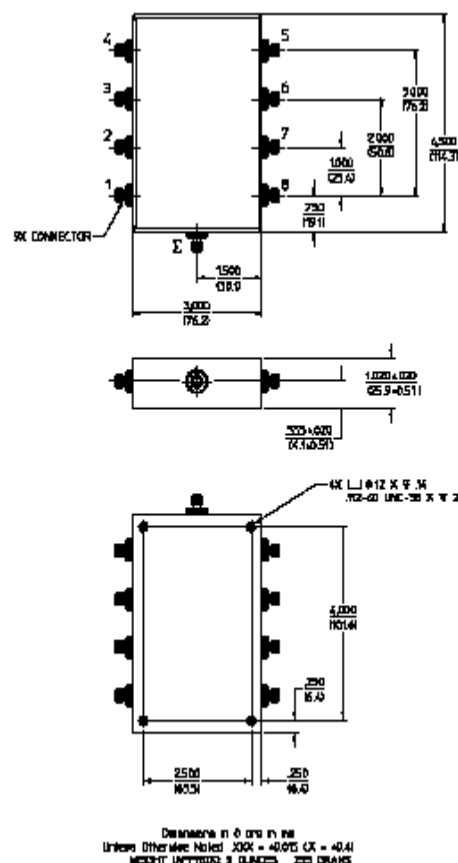
Features

- Low Loss: 1 dB Typical
- High Isolation: 30 dB Typical
- Low VSWR: 1.3:1 Typical
- Impedance: 50 Ohms Nominal
- Maximum Power Rating or Input Power: 2 Watt Max.
- Internal Load Dissipation: 0.25 Watts Max.
- MIL-STD-202 Screening Available

C-18

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.



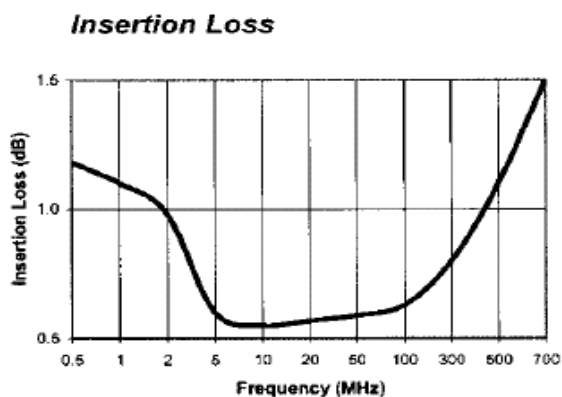
Electrical Specifications¹: T_A = -55°C to +85°C

Parameter	Test Conditions	Frequency	Units	Min	Typ	Max
Insertion Loss	Less Coupling	2 - 500 MHz	dB	—	—	1.2
Isolation	—	2 - 100 MHz	dB	30	—	—
		100 - 500 MHz	dB	25	—	—
Amplitude Balance	—	2 - 100 MHz	dB	—	—	0.15
		100 - 500 MHz	dB	—	—	0.25
Phase Balance	—	2 - 100 MHz	°	—	—	2.0
		100 - 500 MHz	°	—	—	3.5
VSWR	All Ports	2 - 100 MHz	Ratio	—	—	1.6:1
		100 - 500 MHz	Ratio	—	—	1.35:1

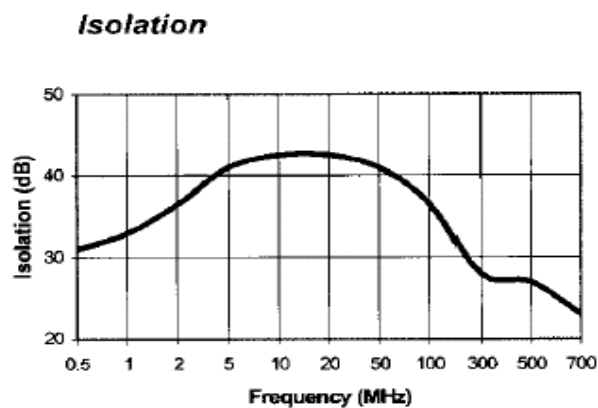
1. All specifications apply with 50 ohm source and load impedance.
This product contains elements protected by United States Patent Number 3,428,920.

Typical Performance Curves

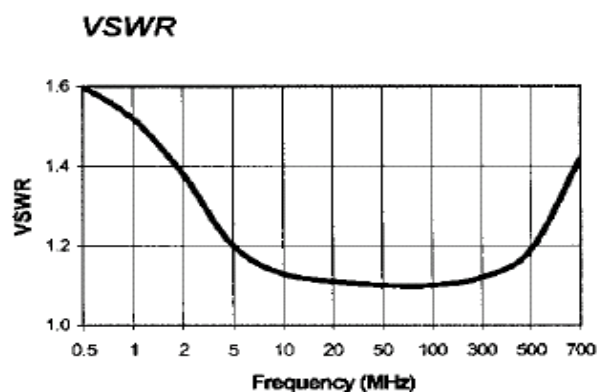
Insertion Loss



Isolation



VSWR



Ordering Information

Part Number	Package
DS-309 BNC	C-18
DS-309 SMA	C-18
DS-309 TNC	C-18
DS-309 N	C-18