

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

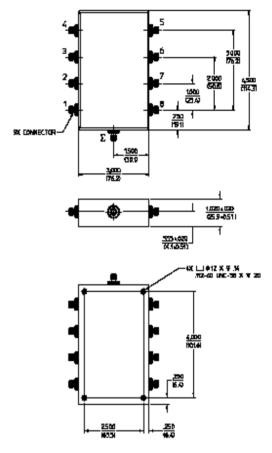
Description

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.

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		

C-18



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

DS-309



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

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
Insertion Loss	Less Coupling	2 - 500 MHz	dB	_	_	1.2
Isolation	-	2 - 100 MHz 100 - 500 MHz	dB dB	30 25	-	_
Amplitude Balance	_	2 - 100 MHz 100 - 500 MHz	dB dB	_	_	0.15 0.25
Phase Balance	_	2 - 100 MHz 100 - 500 MHz	0	_	_	2.0 3.5
VSWR	All Ports	2 - 100 MHz 100 - 500 MHz	Ratio Ratio	1 1		1.6:1 1.35:1



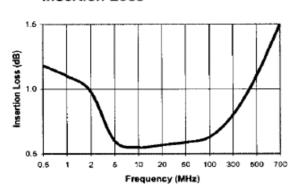
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Typical Performance Curves

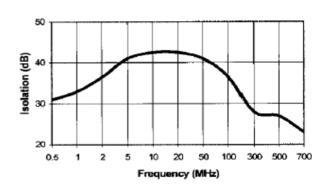
Insertion Loss

Insertion Loss



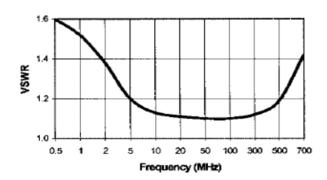
Isolation

Isolation



VSWR

VSWR



DS-309



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