



Eight-Way Power Divider, 2 - 500 MHz

DS-309

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.

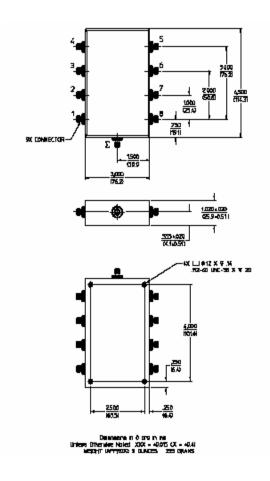
• Internal Load Dissipation: 0.25 Watts Max.

• 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.

C-18



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	_	_	1.6:1 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.

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[•] North America Tel: 800.366.2266 / Fax: 978.366.2266

[•] Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300

Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298



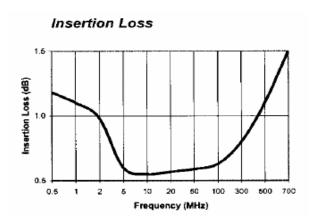


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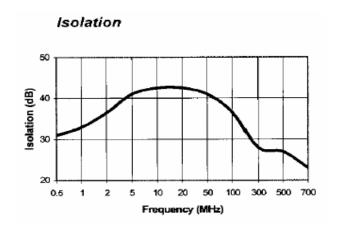
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Typical Performance Curves

Insertion Loss

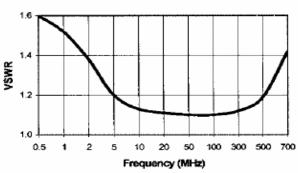


Isolation



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		

[•] Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300

Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298