

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

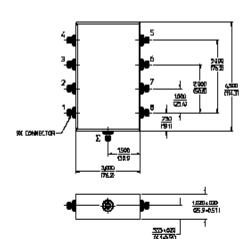
• Maximum Power Rating or Input Power: 2 Watt Max.

• Internal Load Dissipation: 0.25 Watts Max.

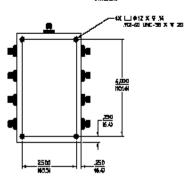
MIL-STD-202 Screening Available

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.



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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		_ _	1.6:1 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.

Solutions has under development. Performance is based on engineering tests. Specifications are

typical. Mechanical outline has been fixed. Engineering samples

Commitment to produce in volume is not du

ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed.

PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology

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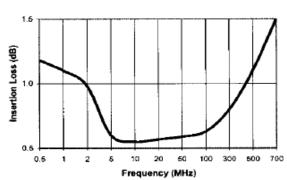
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Typical Performance Curves

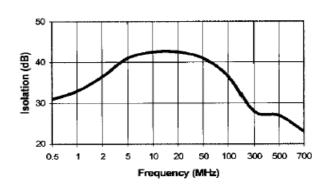
Insertion Loss

Insertion Loss



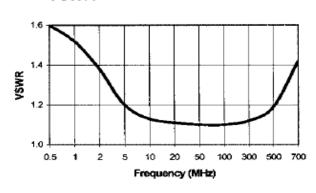
Isolation

Isolation



VSWR

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		

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