

Three-Way Power Divider, 3 - 700 MHz

Rev. V3

Features

• Insertion Loss: 0.4 dB Typical Midband

Isolation: 28 dB Typical Midband

Input VSWR: 1.2:1 TypicalImpedance: 50 Ohms Nominal

• Maximum Power Rating or Input Power: 1 Watt Max.

• Internal Load Dissipation: 0.125 Watts Max.

• MIL-STD-202 Screening Available

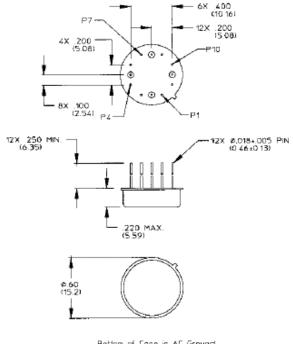
Description

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.

Pin Configuration

Pin No.	Function	Pin No.	Function	
1	GND	7	GND	
2	Output	8	Output	
3	GND	9	GND	
4	GND	10	GND	
5	Output	11	Input	
6	GND	12	GND	

TO-8-2



Bottom of Case is AC Ground Dimensions in 0 are in min Unless Otherwise Noted: XXX = ±0.010 (XXX = ±0.25) XX = ±0.02 (X = ±0.5)

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

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
Insertion Loss	Less Coupling	3 - 500 MHz 500 - 700 MHz	dB dB		_	0.70 1.0
Isolation	_	3 - 700 MHz	dB	20	_	_
Amplitude Balance	_	3 - 500 MHz 500 - 700 MHz	dB dB	_	_	0.25 0.4
Phase Balance	_	3 - 500 MHz 500 - 700 MHz	0	_	_	3 4
VSWR	All Ports	10 - 500 MHz 3 - 700 MHz	Ratio Ratio	_	_	1.3:1 1.5:1

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

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 Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in volume is not guaranteed.

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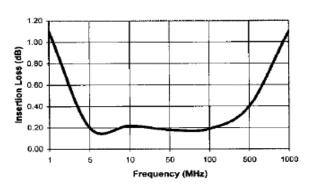
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Typical Performance Curves

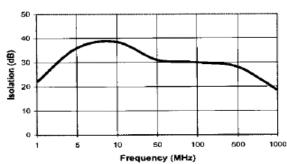
Insertion Loss

Insertion Loss



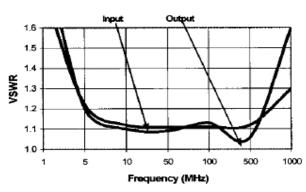
Isolation

Isolation



VSWR

VSWR



Ordering Information

Part Number	Package		
DS-328 PIN	TO-8-2		

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