

Electronics

### **Three-Way Power Divider**, 3 - 700 MHz

#### Features

- Insertion Loss: 0.4 dB Typical Midband •
- Isolation: 28 dB Typical Midband •
- Input VSWR: 1.2:1 Typical •
- Impedance: 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	

## Electrical Specifications<sup>1</sup>: $T_A = -55^{\circ}C$ 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 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.

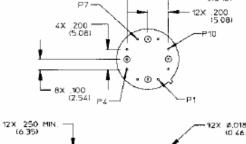
This product contains elements protected by United States Patent Number 3,428,920.

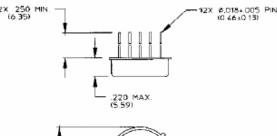
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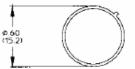
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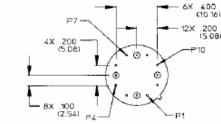
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Bottom of Case is AC Ground Dimensions in () are in ma Unless Otherwise Noted: XXX = ±0.010 (XX = ±0.25) .XX = ±0.02 (X = ±0.5)



**TO-8-2** 





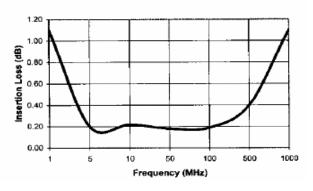
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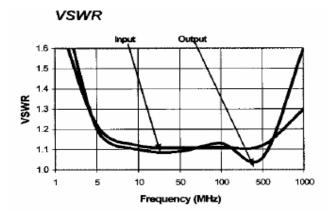
### **Typical Performance Curves**

#### Insertion Loss



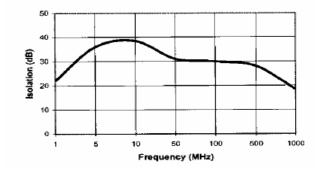


VSWR



Isolation

#### Isolation



#### **Ordering Information**

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

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