

## Two-Way Power Divider, 400 KHz - 400 MHz

Rev. V3

### Features

- Phase Balance: 2° Typical
- Isolation: 20 dB Typical Midband
- Input VSWR: 1.25:1 Typical Midband
- Impedance: 50 Ohms Nominal
- Maximum Power Rating or Input Power: 1 Watt Max.
- Internal Load Dissipation: 0.1 Watts Max.
- MIL-STD-202 Screening Available

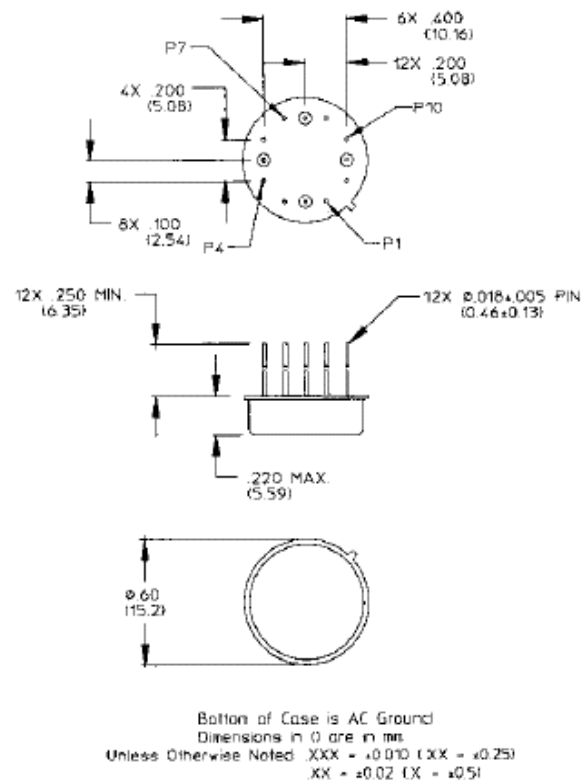
### TO-8-2

### 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	Output D	7	
2	GND	8	GND
3		9	Output C
4	GND	10	
5	$\Sigma$	11	
6	GND	12	



### Electrical Specifications<sup>1</sup>: $T_A = -55^{\circ}\text{C}$ to $+85^{\circ}\text{C}$

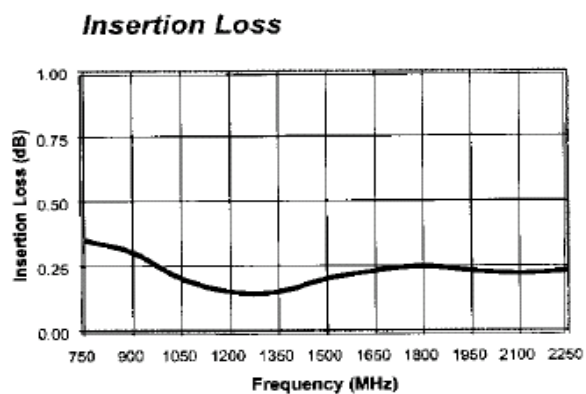
Parameter	Test Conditions	Frequency	Units	Min	Typ	Max
Insertion Loss	Less Coupling	1000 - 2000 MHz	dB	—	—	0.5
Isolation	—	1000 - 2000 MHz	dB	10	—	—
Amplitude Balance	—	1000 - 2000 MHz	dB	—	—	0.2
Phase Balance	—	1000 - 2000 MHz	°	—	—	6
VSWR	Input Output	1000 - 2000 MHz 1000 - 2000 MHz	Ratio Ratio	— —	— —	1.7:1 1.4:1

1. All specifications apply with 50 ohm source and load impedance.

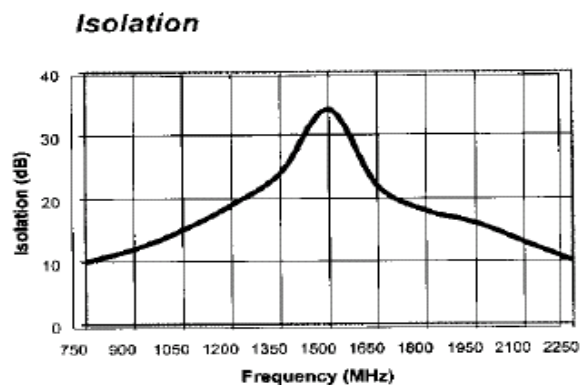
This product contains elements protected by United States Patent Number 3,428,920.

## Typical Performance Curves

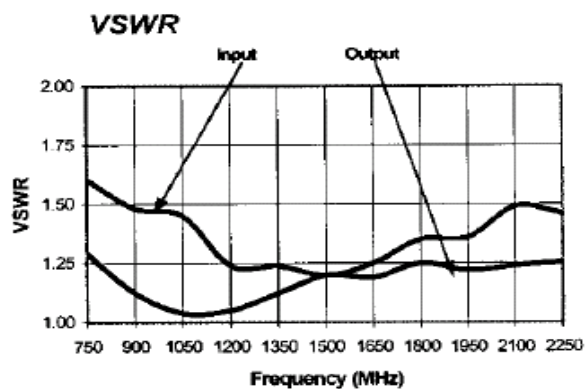
*Insertion Loss*



*Isolation*



*VSWR*



## Ordering Information

Part Number	Package
DS-332 PIN	TO-8-2

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