

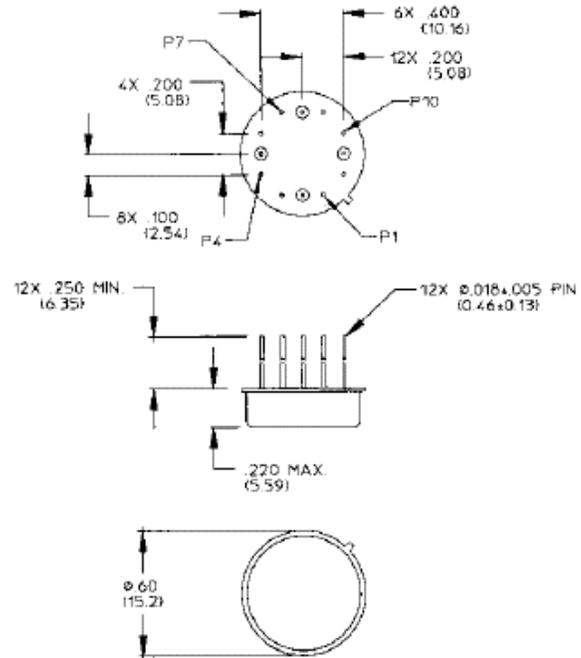
## Features

- Phase Balance: 2° Typical
- Isolation: 20 dB Typical Midband
- Input VSWR: 1.5:1 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.



Bottom of Case is AC Ground  
 Dimensions in  $\text{\O}$  are in mm  
 Unless Otherwise Noted: XXX =  $\pm 0.010$  (XX =  $\pm 0.25$ )  
 XX =  $\pm 0.02$  (X =  $\pm 0.5$ )

## 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	

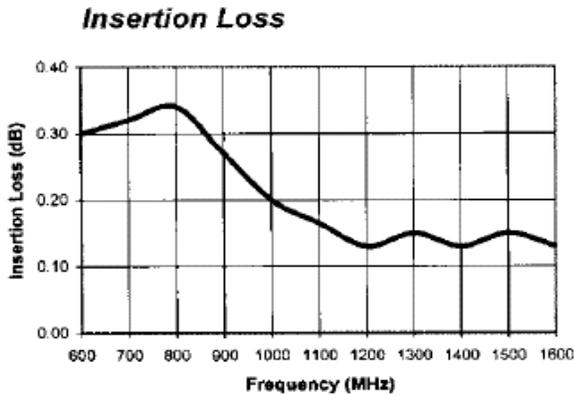
## Electrical Specifications<sup>1</sup>: $T_A = -55^\circ\text{C}$ to $+85^\circ\text{C}$

Parameter	Test Conditions	Frequency	Units	Min	Typ	Max
Insertion Loss	Less Coupling	750 - 1500 MHz	dB	—	—	0.4
Isolation	—	750 - 1500 MHz	dB	10	—	—
Amplitude Balance	—	750 - 1500 MHz	dB	—	—	0.2
Phase Balance	—	750 - 1500 MHz	°	—	—	6
VSWR	Input Output	750 - 1500 MHz 750 - 1500 MHz	Ratio Ratio	— —	— —	1.7:1 1.3:1

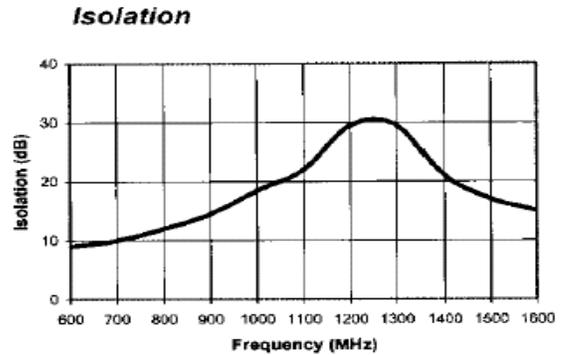
1. All specifications apply with 50 ohm source and load impedance.  
 This product contains elements protected by United States Patent Number 3,428,920.

## Typical Performance Curves

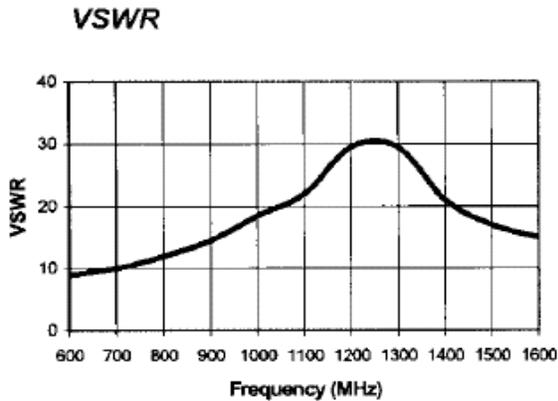
**Insertion Loss**



**Isolation**



**VSWR**



## Ordering Information

Part Number	Package
DS-331 PIN	TO-8-2