

Two-Way Power Divider, 750 - 1500 MHz

Rev. V3

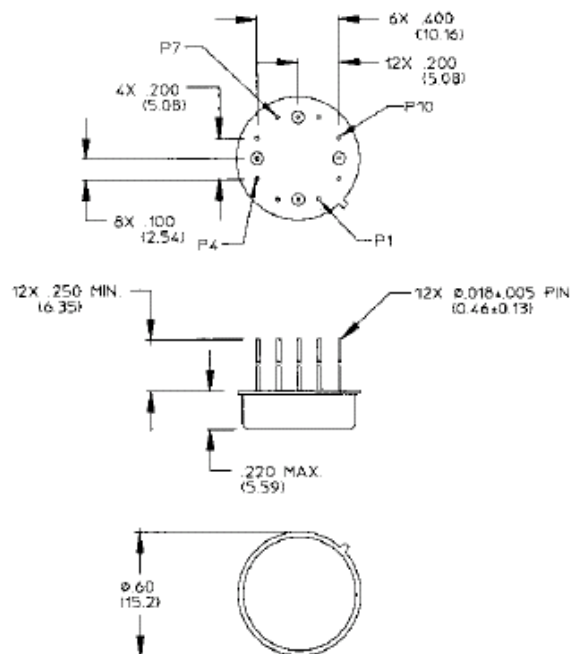
Features

- 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

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.

TO-8-2



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

Ordering Information

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

Pin Configuration

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

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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Electrical Specifications¹: $T_A = -55^{\circ}\text{C}$ to $+85^{\circ}\text{C}$

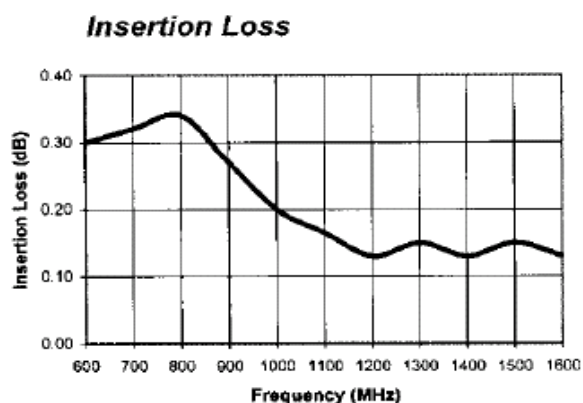
Parameter	Test Conditions	Frequency	Units	Min	Typ.	Max
Insertion Loss	Less Coupling	750 - 1500 MHz	dB	—	—	0.4
Isolation	—	750 - 1500 MHz	dB	10	—	—
Amplitude Balance	—	750 - 1500 MHz	dB	—	—	0.2
Phase Balance	—	750 - 1500 MHz	°	—	—	6
VSWR	Input	750 - 1500 MHz	Ratio	—	—	1.7:1
	Output	750 - 1500 MHz	Ratio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

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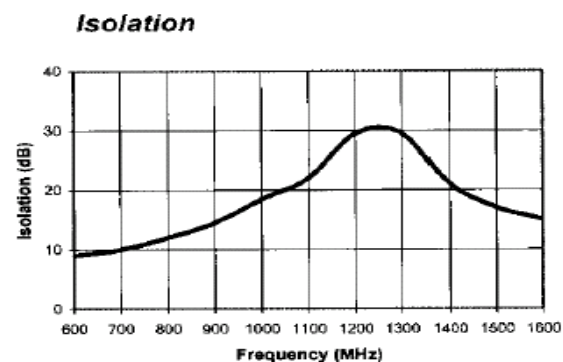
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Typical Performance Curves

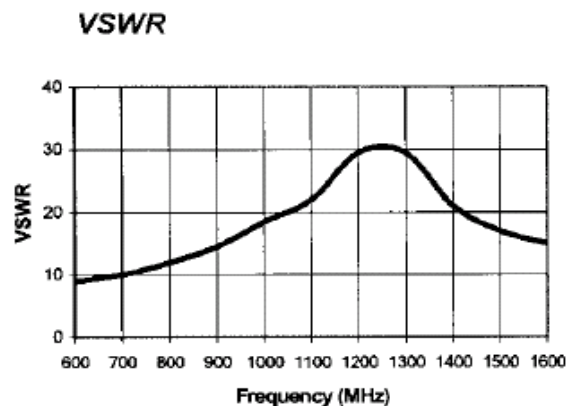
Insertion Loss



Isolation



VSWR



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