

Electronics

Two-Way Power Divider, 1000 - 2000 MHz

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 •

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 | Σ | 11 | |
| 6 | GND | 12 | |

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

| Parameter | Test Conditions | Frequency | Units | Min | Тур | Мах |
|-------------------|-----------------|------------------------------------|----------------|-----|-----|----------------|
| 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 | o | | | 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.

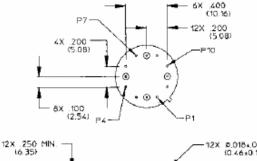
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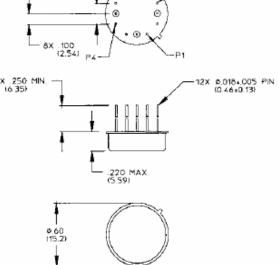
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TO-8-2

Botton of Case is AC Ground Dimensions in 0 are in mr. Unless Otherwise Noted .XXX = x0.010 (.XX = x0.25) XX = ±0.02 (X = ±0.5)





DS-332

V3

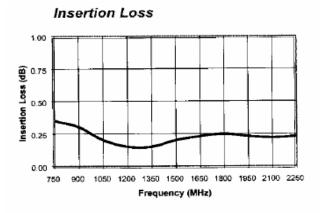


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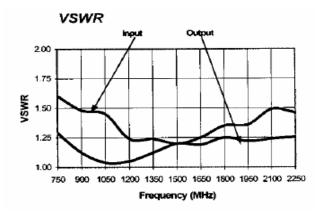
Typical Performance Curves

Insertion Loss

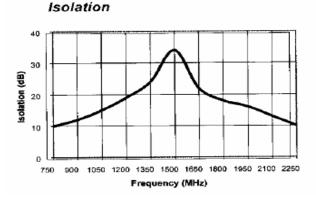


VSWR

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Isolation



Ordering Information

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

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