

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

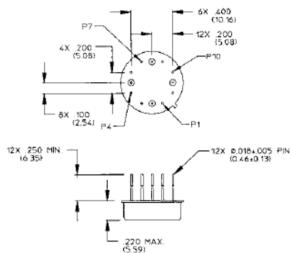
Description

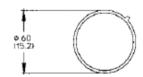
A Power Divider is ideally a lossless reciprocal device which can also perform vector summation of two or more signals and thus is sometimes called a power combiner or summer.

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 | |

TO-8-2





Botton of Case is AC Ground Dimensions in 0 are in mis. Onless Otherwise Noted .XXX = $_{x}0.02$ (XX = $_{x}0.25$) .XX = $_{x}0.02$ (X = $_{x}0.51$)

Electrical Specifications¹: $T_A = -55$ °C to +85°C

| Parameter | Test Conditions | Frequency | Units | Min | Тур | Max |
|-------------------|-----------------|------------------------------------|----------------|-----|-----|----------------|
| Insertion Loss | Less Coupling | 1000 - 2000 MHz | dB | _ | _ | 0.5 |
| Isolation | ı | 1000 - 2000 MHz | dB | 10 | 1 | _ |
| Amplitude Balance | _ | 1000 - 2000 MHz | dB | _ | _ | 0.2 |
| Phase Balance | I | 1000 - 2000 MHz | ٥ | ı | 1 | 6 |
| VSWR | Input Output | 1000 - 2000 MHz 1000 - 2000 MHz | Ratio Ratio | 11 | 11 | 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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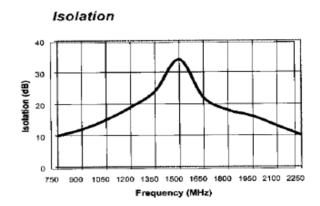
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Typical Performance Curves

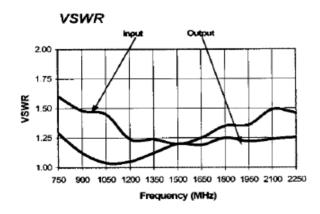
Insertion Loss

1.00 0.75 0.26 0.00 750 900 1050 1200 1360 1600 1600 1800 1950 2100 2250 Frequency (MHz)

Isolation



VSWR



Ordering Information

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

DS-332



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