

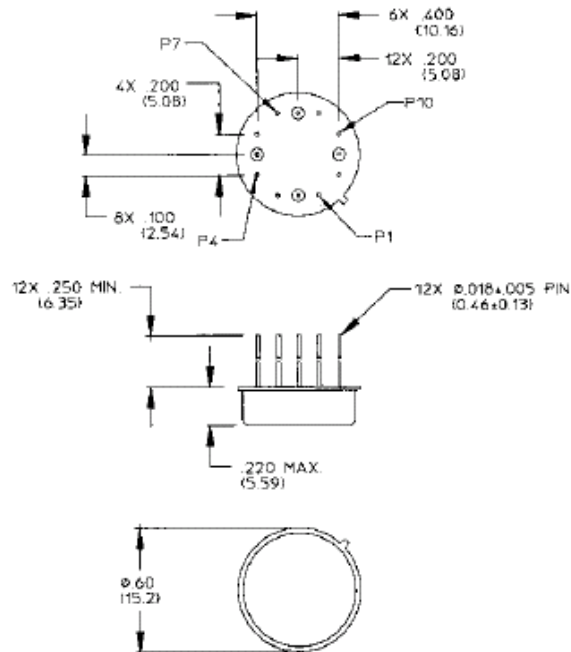
Features

- 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 \varnothing are in mm.
Unless Otherwise Noted XXX = +0.010 (XXX = +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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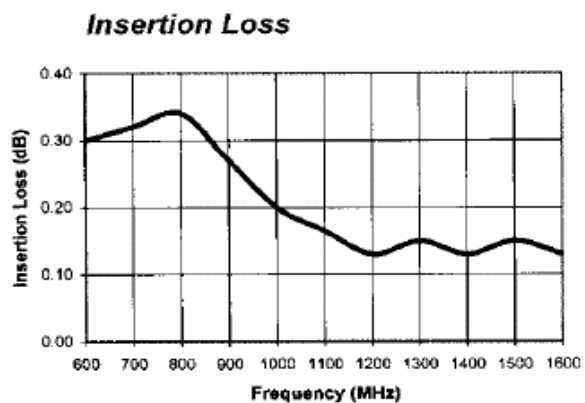
For further information and support please visit:
<https://www.macom.com/support>

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

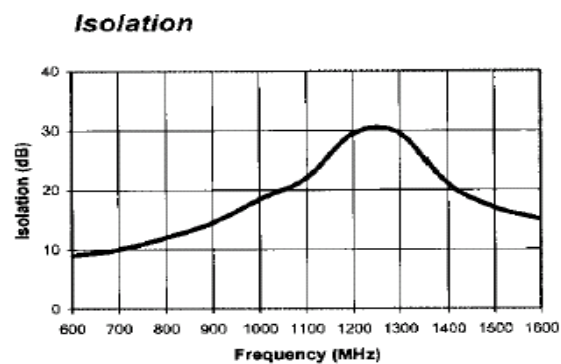
| Parameter | Test Conditions | Frequency | Units | Min | Typ. | Max |
|-------------------|-----------------|----------------|-------|-----|------|-------|
| Insertion Loss | Less Coupling | 750 - 1500 MHz | dB | — | — | 0.4 |
| Isolation | — | 750 - 1500 MHz | dB | 10 | — | — |
| Amplitude Balance | — | 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 |

Typical Performance Curves

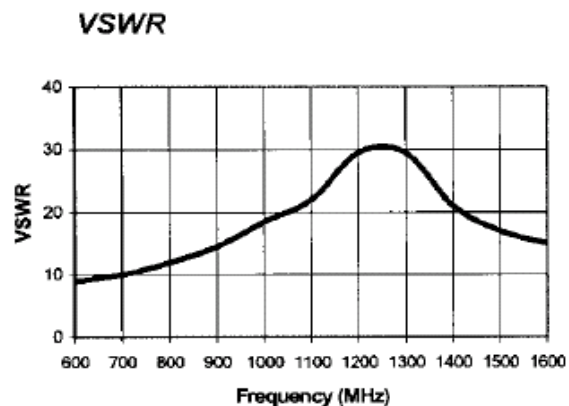
Insertion Loss



Isolation



VSWR



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