tyco Electronics

M/ACOM

Two-Way Power Divider, 750 - 1500 MHz

DS-331
V3

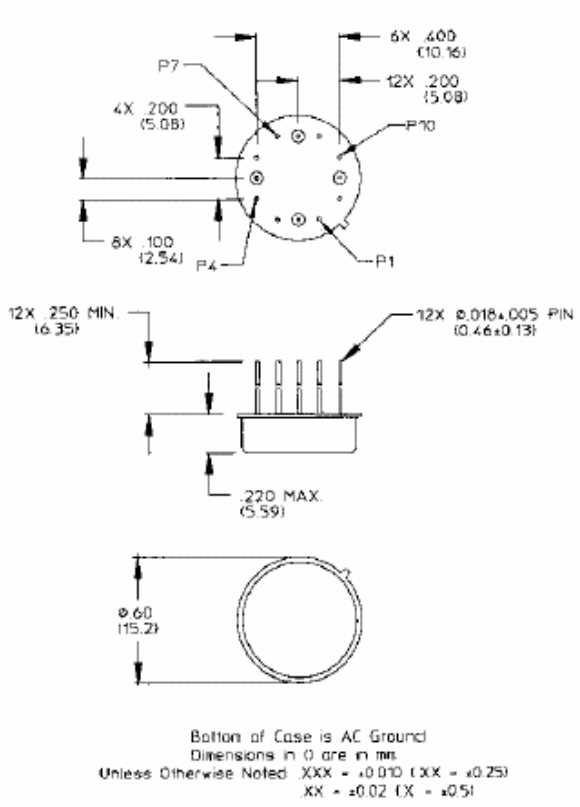
Features

- Phase Blanace: 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



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 Specifications[1]: 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 Output	750 - 1500 MHz 750 - 1500 MHz	Ratio Ratio	— —	— —	1.7:1 1.3:1

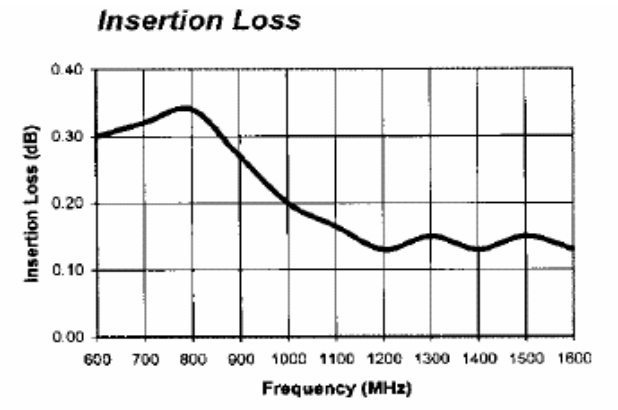
1. All specifications apply with 50 ohm source and load impedance.
This product contains elements protected by United States Patent Number 3,428,920.

- **North America** Tel: 800.366.2266 / Fax: 978.366.2266
- **Europe** Tel: 44.1908.574.200 / Fax: 44.1908.574.300
- **Asia/Pacific** Tel: 81.44.844.8296 / Fax: 81.44.844.8298

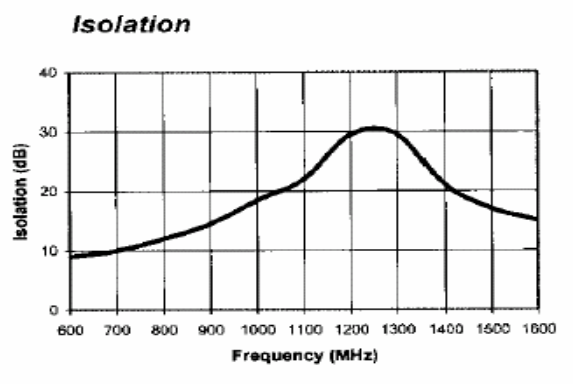
Visit www.macom.com for additional data sheets and product information.

Typical Performance Curves

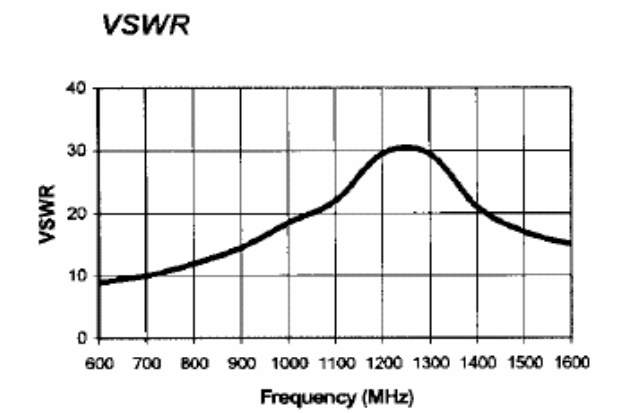
Insertion Loss



Isolation



VSWR



Ordering Information

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

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- **Europe** Tel: 44.1908.574.200 / Fax: 44.1908.574.300
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