

Two-Way Power Divider, 400 KHz - 400 MHz

Rev. V3

Features

Phase Balance: 2° Typical

Isolation: 20 dB Typical Midband
Isolation: 4 05:4 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

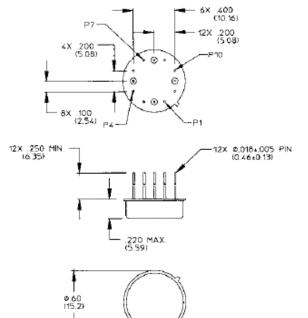
Description

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 this Unless Otherwise Noted .XXX = $_{2}0.00 (XX = _{2}0.25)$.XX = $_{2}0.02 (X = _{2}0.51)$

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	_	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	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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Visit www.macomtech.com for additional data sheets and product information.



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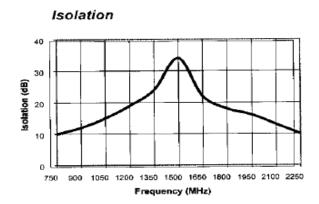
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Typical Performance Curves

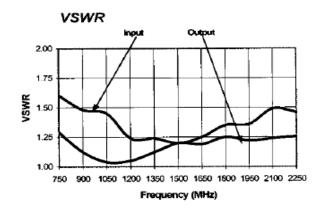
Insertion Loss

1.00 0.75 0.26 0.00 750 900 1050 1200 1360 1500 1650 1800 1950 2100 2250 Frequency (MHz)

Isolation



VSWR



Ordering Information

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

Commitment to produce in volume is not guaranteed.