Two-Way Power Divider, 750 - 1500 MHz

Features

- Phase Blanace: 2º 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

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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 $+85^{\circ}C$

Parameter	Test Conditions	Frequency	Units	Min	Тур	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	o	—	_	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.

ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed. PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are

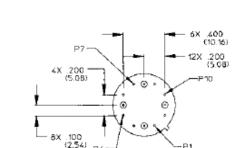
typical. Mechanical outline has been fixed. Engineering samples

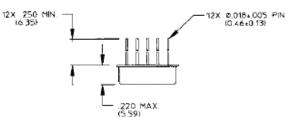
Commitment to produce in volume is not gue

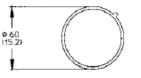
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- Visit www.macomtech.com for additional data sheets and product information.



Rev. V3







Botton of Case is AC Ground Dimensions in 0 are in mm. Unless Otherwise Noted .XXX = x0.010 (.XX = x0.25) .XX = x0.02 (.X = x0.5)

TO-8-2

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Insertion Loss

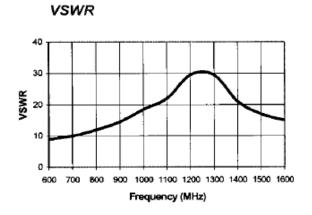


Rev. V3

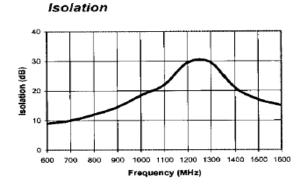
Typical Performance Curves

Insertion Loss 0.40 Insertion Loss (dB) 0.30 0.20 0.10 0.00 900 1000 1100 1200 1300 1400 1500 1600 600 700 800 Frequency (MHz)

VSWR



Isolation



Ordering Information

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

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