Two-Way Power Divider, 750 - 1500 MHz

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.

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.

1

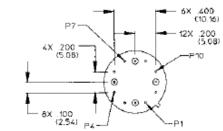
This product contains elements protected by United States Patent Number 3,428,920.

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

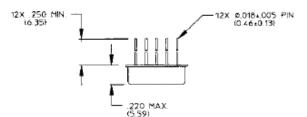
- North America
 Tel:
 800.366.2266
 Europe
 Tel:
 +353.21.244.6400
 Output
 Output
- Visit www.macomtech.com for additional data sheets and product information.

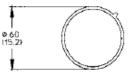
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TO-8-2





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

Technology Solutions

Rev. V3

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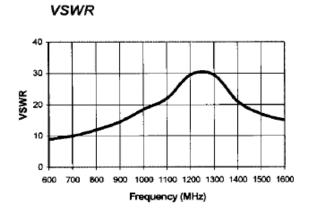


Rev. V3

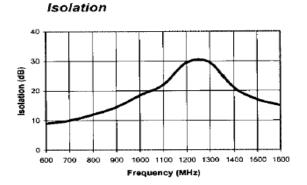
Typical Performance Curves

Insertion Loss

VSWR



Isolation



Ordering Information

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

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