

## Two-Way Power Divider, 400 KHz - 400 MHz

Rev. V3

#### **Features**

Phase Balance: 2° Typical

Isolation: 20 dB 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

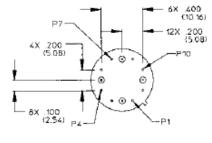
### **Description**

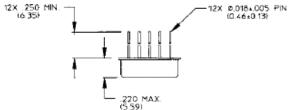
A Power Divider is ideally a lossless reciprocal device which can also perform vector summation of two or more signals and thus is sometimes called a power combiner or summer.

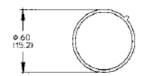
## **Pin Configuration**

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 mm. Unless Otherwise Noted .XXX = x0.010 (.XXX = x0.25) .XX = x0.02 (.X = x0.5)

## Electrical Specifications<sup>1</sup>: $T_A = -55$ °C to +85°C

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
Insertion Loss	Less Coupling	1000 - 2000 MHz	dB	_	_	0.5
Isolation	I	1000 - 2000 MHz	dB	10		_
Amplitude Balance	-	1000 - 2000 MHz	dB	_	_	0.2
Phase Balance	_	1000 - 2000 MHz	0	_	_	6
VSWR	Input Output	1000 - 2000 MHz 1000 - 2000 MHz	Ratio Ratio	1 1		1.7:1 1.4:1

typical. Mechanical outline has been fixed. Engineering samples

Commitment to produce in volume is not gui

<sup>1.</sup> 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

<sup>•</sup> North America Tel: 800.366.2266 • Europe Tel: +353.21.244.6400

<sup>•</sup> China Tel: +86.21.2407.1588 • India Tel: +91.80.4155721 Visit www.macomtech.com for additional data sheets and product information.



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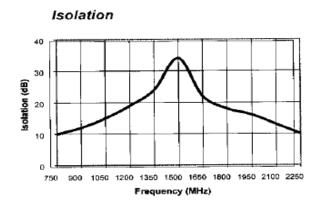
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## **Typical Performance Curves**

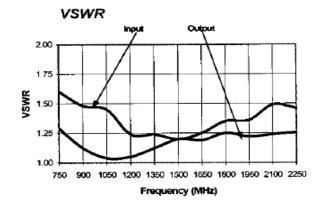
#### Insertion Loss

# Insertion Loss 1.00 (gp) co.75 0.50 0.26 0.00 900 1050 1200 1350 1500 1650 1800 1960 2100 2250 750 Frequency (MHz)

#### Isolation



#### **VSWR**



## **Ordering Information**

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

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 gu

<sup>•</sup> India Tel: +91.80.4155721