

# M/A-COM Two-Way In-Phase Power Divider 10-2000 MHz

## Features

- Space Qualified version of DS-313
- Designed to meet the Stringent Reliability Standards of Space Hardware
- 50 Ohms Nominal Impedance
- 28 dB Midband Isolation
- 1.2:1 Midband VSWR

## Description

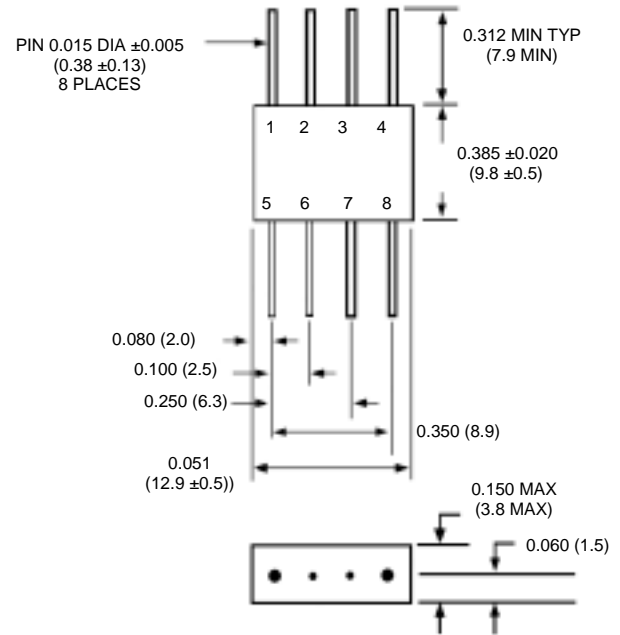
M/A-COM's PD10-0042-S is a Two-Way In-Phase Power Divider designed to operate between 10 and 2000 MHz.

## Absolute Maximum Ratings<sup>1</sup>

Parameter	Absolute Maximum
Max. Input Power	250 milliWatt Max.
Operating Temperature	-30°C to +85°C
Storage Temperature	-65°C to +125°C

1. Operation of this device above any one of these parameters may cause permanent damage.

## FP-2



Dimensions in ( ) are in mm.  
Unless Otherwise Noted: .xxx = ±0.010 (.xx = ±0.25)  
.xx = ±0.02 (.x = ±0.5)  
WEIGHT (APPROX.): 0.09 OUNCES 2.5 GRAMS

## Electrical Specifications, T<sub>A</sub> = +25°C

Parameter	Frequency	Units	Min.	Max.
Insertion Loss	10-1000 MHz	dB	-	1.1
	1001-1500 MHz	dB	-	1.3
	1501-2000 MHz	dB	-	-1.8
Isolation	20-1000 MHz	dB	23	-
	10-1500 MHz	dB	18	-
	1501-2000 MHz	dB	12	-
Amplitude Balance	20-1000 MHz	dB	-	.3
	10-1500 MHz	dB	-	.4
	1500-2000 MHz	dB	-	.6
Phase Balance	20-1000 MHz	-	-	4°
	10-1500 MHz	-	-	6°
	1500-2000 MHz	-	-	8°
VSWR	20-1000 MHz	-	-	1.5:1
	10-1500 MHz	-	-	1.6:1
	1501-2000 MHz	-	-	1.8:1

1. All specifications apply with a 50-Ohm source and load impedance.

Specifications subject to change without notice.

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Visit [www.macom.com](http://www.macom.com) for additional data sheets and product information.