

# M/A-COM Double Balanced Mixer 0.5 - 500 MHz

## Features

- Space Qualified version of MD-124
- Designed to meet the Stringent Reliability Standards of Space Hardware
- Negative DC Polarity
- 7 dB Conversion Loss
- Usable Down to 200 KHz

## Description

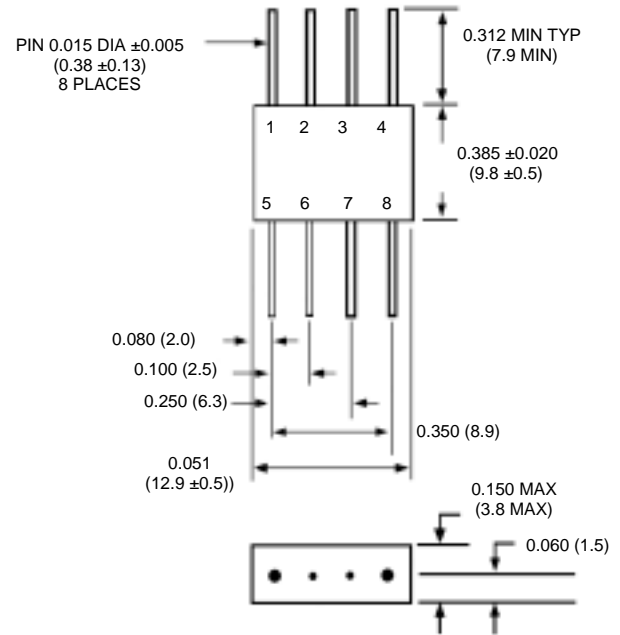
M/A-COM's MD20-0016-S is a Space Designed Double Balanced Mixer.

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

Parameter	Absolute Maximum
Max. Input Power 0.5-500 MHz	300 milliWatt
Operating Temperature	-40°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	Test Conditions	Frequency	Units	Min.	Typ.	Max.
Conversion Loss	-	0.5-500 MHz	dB	-	-	7
Isolation	LO-RF	0.5-10 MHz	dB	35	-	-
		10-200 MHz	dB	30	-	-
		200-500 MHz	dB	20	-	-
	LO-IF	0.5-10 MHz	dB	30	-	-
		10-200 MHz	dB	25	-	-
		200-500 MHz	dB	20	-	-
	RF-IF	0.5-10 MHz	dB	25	-	-
		10-200 MHz	dB	15	-	-
		200-500 MHz	dB	15	-	-
1 dB Compression	-	0.5-500 MHz	dBm	-	+1	-
Noise Figure	-	0.5-500 MHz	dB	-	-	+8
Two-Tone IM Ratio	-	100-400	dBc	-	50	-
		400-500	dBc	-	40	-

Specifications subject to change without notice.

V.2.0

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