

# M/A-COM Double Balanced Mixer 5 - 1500 MHz

## Features

- Space Qualified version of MD-158
- Designed to meet the Stringent Reliability Standards of Space Hardware
- 6 dB Midband Conversion Loss
- 35 dB Midband LO-RF Isolation
- 1.5 dB Conversion Loss Flatness

## Description

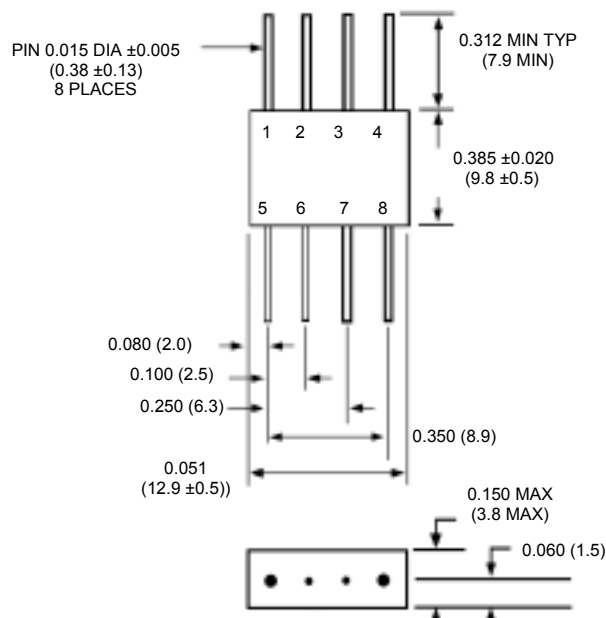
M/A-COM's MD20-0018-S is a Double Balanced Mixer designed to operate between 5-1500 MHz.

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

Parameter	Absolute Maximum
Max. Input Power 10-500 MHz	1 Watt Max.
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	-	5-1500 MHz	dB	-	-	9
	-	5-1000 MHz	dB	-	-	7
	-	750 MHz	dB	-	-	Δ 0.2
Isolation	LO-RF	5-600 MHz	dB	30	-	-
		600-1000 MHz	dB	25	-	-
		1000-1500 MHz	dB	20	-	-
	LO-IF	5-1000 MHz	dB	20	-	-
		1000-1500 MHz	dB	17	-	-
	RF-IF	5-600 MHz	dB	20	-	-
600-1000 MHz	dB	15	-	-	-	
1000-1500 MHz	dB	8	-	-	-	
1 dB Compression	-	5-1500 MHz	dBm	-	+1	-
Noise Figure	-	5-1500 MHz	dB	-	-	+10
Two-Tone IM Ratio	-	300 MHz	dB	-	35	-
	-	1000 MHz	dB	-	35	-

Specifications subject to change without notice.

V.2.0

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