

M/A-COM Double Balanced Mixer

10 - 3000 MHz

Features

- Space Qualified version of MD-123
- Designed to meet the Stringent Reliability Standards of Space Hardware
- -7 dB Typical Compression Level
- Excellent Intermodulation Rejection
- 1.5 dB Conversion Loss Flatness

Description

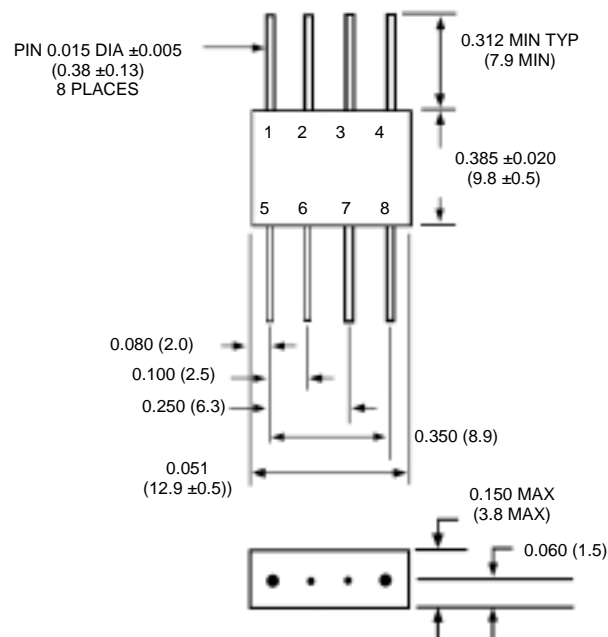
M/A-COM's MD20-0017-S is a High Performance Double Balanced Mixer designed to operate between 10-3000 MHz.

Absolute Maximum Ratings¹

Parameter	Absolute Maximum
Max. Input Power 10-500 MHz	600 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_A = +25°C

Parameter	Test Conditions	Frequency	Units	Min.	Typ.	Max.
Conversion Loss	-	10-3000 MHz	dB	-	-	8
Isolation	LO-RF	10-500 MHz	dB	25	-	-
		500-1000 MHz	dB	30	-	-
		1000-3000 MHz	dB	25	-	-
	LO-IF	10-500 MHz	dB	20	-	-
		500-1000 MHz	dB	25	-	-
		1000-3000 MHz	dB	25	-	-
	RF-IF	10-500 MHz	dB	20	-	-
		500-1000 MHz	dB	20	-	-
		1000-3000 MHz	dB	18	-	-
1 dB Compression	-	10-3000 MHz	dBm	-	+6	-
Noise Figure	-	10-3000 MHz	dB	-	-	+9
Two-Tone IM Ratio	-	100-2000	dBc	-	50	-

Specifications subject to change without notice.

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