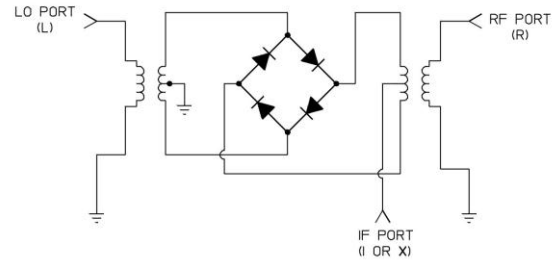


DMF-4A SERIES – DOUBLE BALANCED MIXER

TECHNICAL FEATURE

FEATURES

- 500 kHz to 2 GHz
- +10 to +17 dBm LO
- Hi-Rel Hermetic Flatpack

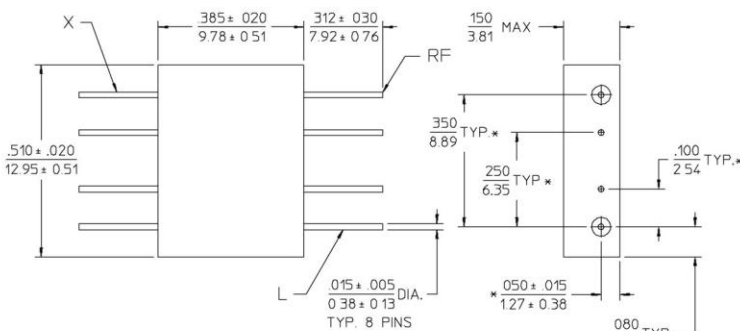


PRINCIPAL SPECIFICATIONS

Model Number	RF/LO Frequency, MHz	IF Frequency, MHz	Operating Range, MHz	Conversion Loss, dB		Port Isolation, Min. dB			Polarity Sense
				Max.	Typ.	L-R	L-X	R-X	
DMF-4A-250	0.5 - 500	DC - 500	0.5 - 1	8.0	7.0	40	30	23	Pos.
			1 - 300	7.0	6.0	40	30	23	
			300 - 500	8.0	7.0	35	20	20	
DMF-4A-500	10 - 1000	DC - 1000	10 - 50	7.5	6.5	35	30	25	Pos.
			50 - 500	7.5	6.5	30	25	20	
			500 - 1000	8.5	7.5	25	15	15	
DMF-4A-700	10 - 1500	DC - 1000	10 - 600	8.0	7.0	30	20	15	Neg.
			600 - 1000	8.0	7.0	20	12	15	
			1000 - 1500	9.5	8.5	20	12	8	
DMF-4A-1700	500 - 2000	DC - 1000	500 - 2000	8.0	6.0	25	20	15	Neg.

All specifications are as measured in a 50Ω system, at nominal LO power, in a down converter application.

A-Size Flatpack Outline



- NOTES:
1. Tolerance on 3 place decimals ±0.10(.25) except as noted.
 2. Dimensions in inches over millimeters.
 3. Dimensions marked with * apply only at body.
 4. All unmarked pins are case ground.

GENERAL SPECIFICATIONS

LO Drive: +13 dBm nom.
 Impedance: 50 Ω nom.
 Noise Figure: Within ±1 dB of Conversion Loss
 Maximum Input Power: 300 mW @ 25°C
 (derate linearly to 0 mW @ 125°C)
 1 dB Comp. Point: +8 dBm input, typ.
 Input Intercept Point: +19 dBm, typ.
 DC Offset Voltage: 5 mV typ.
 Weight: 0.1 oz (2.8 g)
 Operating Temperature: -55° to +85°C

General Notes:

The DMF-4A series of Double Balanced Mixers covers the frequency range of 0.5 to 2000 MHz using four high-barrier diodes configured for general purpose as well as high performance applications.

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