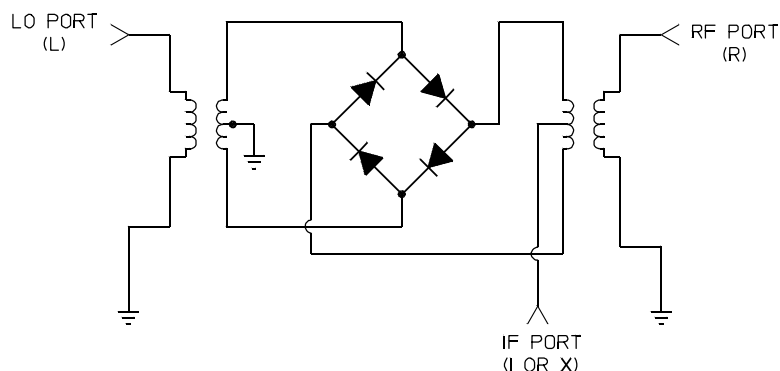


DMF-2A Series

DOUBLE BALANCED MIXERS

500 kHz to 3 GHz / + 7 to +13 dBm LO / Flatpack

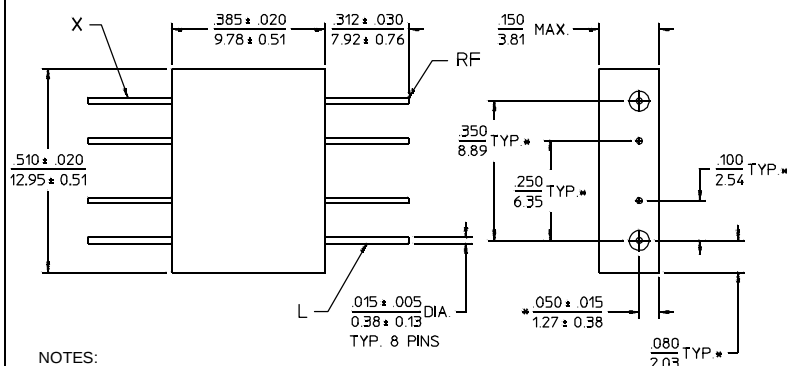


PERFORMANCE SPECIFICATIONS

Model Number	RF/LO Frequency, MHz	IF Frequency, MHz	Operating Range, MHz	Conversion Loss, dB		Port Isolation, Min. dB			R-X Sense
				Max.	Typ.	L-R	L-X	R-X	
DMF-2A-250	0.50 - 500	DC - 500	0.5 - 1.0	8.0	7.0	40	30	23	Pos.
			1.0 - 300	7.0	6.0	40	30	23	
			300 - 500	8.0	7.0	35	20	20	
DMF-2A-505	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-2A-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-2A-750	50 - 1400	DC - 1000	50 - 500	9.0	7.5	40	30	25	Pos.
			500 - 1400	9.0	8.0	25	20	15	
DMF-2A-1500	700 - 2000	DC - 300	700 - 1000	9.0	7.0	25	20	15	Neg.
			1000 - 2000	9.0	7.0	20	15	12	
DMF-2A-1700	500 - 2000	DC - 1000	500 - 2000	8.0	6.0	25	20	15	Neg.
DMF-2A-2000	1000 - 3000	DC - 1000	1000 - 2000	8.0	7.0	25	20	—	Neg.
			2000 - 3000	9.5	8.0	20	20	—	

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

Package Outline



NOTES:

1. Tolerance on 3 place decimals ± 0.010 (.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: +7 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 Compression Point: 0 dBm input, typ.
 Input Intercept Point: +12 dBm, typ.

General Notes:

The DMF-2A series uses a four diode configuration for both general purpose and high performance applications.

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