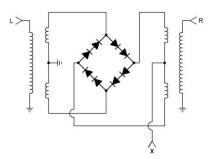
DMF-8A SERIES - DOUBLE BALANCED MIXER

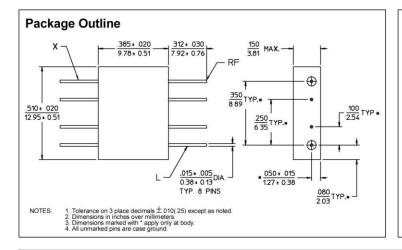
TECHNICAL FEATURE

FEATURES

- 500 kHz to 2 GHz
- +17 to +23 dBm LO
- +25 dBm Third Order Intercept
- Flatpack



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



GENERAL SPECIFICATIONS

LO Drive: +20 dBm nom.Impedance: $50 \Omega \text{ nom.}$ Noise Figure: Within $\pm 1 \text{ dB of }$ Conversion Loss

1 dB Comp. Point: +13 dBm input typ.
Input Intercept Point: +25 dBm typ.

Maximum Input Power: 600 mW @ 25°C (derate linearly to 0 mW @ 125°C)

DC Offset Voltage: 5 mV typ.

Weight: 0.1 oz (2.8 g)

Operating Temperature: -55° to +85°C

General Notes:

- 1. The DMF-8A series of Double Balanced Mixers covers the frequency range of 0.5 to 2000 MHz using an eight diode ring modulator to produce a high level mixer with high third order intercept points.
- 2. Merrimac offers a broad selection of Double Balanced Mixers ideal for a variety of signal processing functions with frequencies ranging from 20 kHz to 20 GHz and for applications from the routine to the very special.
- 3. Merrimac mixers comply with MIL-M-28837 and may be supplied screened for compliance with additional specifications for military and space applications requiring the highest reliability.

29Apr96

Crane Aerospace & Electronics

Microwave Solutions – Merrimac Industries 41 Fairfield Place, West Caldwell, NJ 07006

+ 1.973.575.1300 ext. 1309 • mw@crane-eg.com

www.craneae.com/mw

