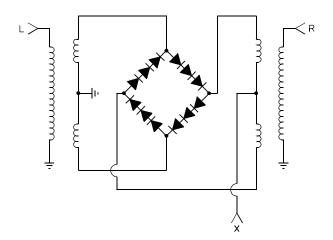
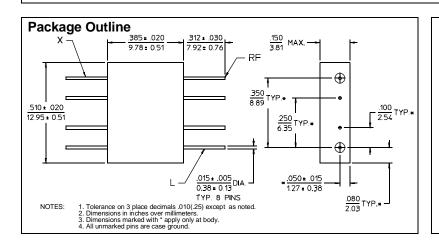
500 kHz to 2 GHz/+20 to +27 dBmLO/+28 dBmThird Order Intercept / Flat pack





PRINCIPAL SPECIFICATIONS									
Model Number	RF/LO Frequency, MHz	IF Frequency, MHz	Operating Range, MHz	Conversion Loss, dB, Max. Typ.		Port Isolation, Min. L-R L-X R-X dB dB. dB		Polarity Sense	
DMF-12A-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-12A-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-12A-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-12A-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.									



GENERAL SPECIFICATIONS

LO Drive: +24 dBm nom. Impedance: 50 Ω nom. Noise Figure: Within ±1 dB of

Conversion Loss

1 dB Comp. Point: +16 dBm input typ. Input Intercept Point: +28 dBm typ. Maximum Input Power: 900 mW @ 25°C

(derate linearly to 0 mW @ 125°C)

DC Offset Voltage: 8 mV typ. Weight: 0.1 oz (2.8 g) Operating Temperature: - 55° to +85°C

General Notes:

- 1. The DMF-12A series of Double Balanced Mixers covers the frequency range of of 0.5 to 2000 MHz using a 12 diode ring modulator to produce an extremely 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
- 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.