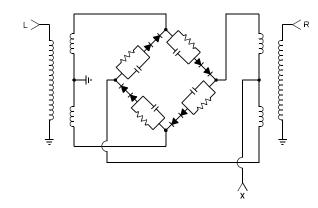
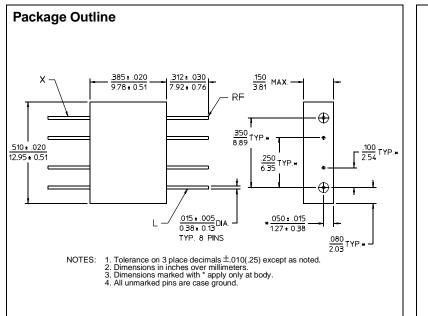
DMF-10A-300

DOUBLE BALANCED MIXER

10 to 600 MHz/+20 to+27 cBmLO/+30 cBmThird Order Intercept / Class III Mixer / Flatpack



				CIFICATIONS					
	RF/LO	Operating	IF	Conversion		Port Isolation, Min.			
Model Number	Frequency, MHz	Range, MHz	Frequency, MHz	Loss Max.	s, dB, Typ.	L-R dB	L-X dB	R-X dB	Polarity Sense
DMF-10A-300	10 - 600	10 - 300 10 - 600	10 - 200 1 - 500	7.5 9.0	6.0 7.0	35 25	25 20	25 20	Positive



GENERAL SPECIFICATIONS

LO Drive:	+25 dBm nom.				
Impedance:	50 Ω nom.				
Noise Figure:	Within ±1 dB of Conversion Loss				
1 dB Comp. Point:	+20 dBm input typ.				
Input Intercept Point:	+30 dBm typ.				
IF Rolloff below 1 MHz:	1 dB nom. @ DC				
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-10A-300 Double Balanced Mixer uses a Class III ring modulator with integral series RC networks. This yields a mixer with a high third order intercept point across a wide range of LO power.

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.

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.

For further information contact MERRIMAC/41 Fairfield PL, West Caldwell, NJ, 07006 / 973-575-1300 / FAX 973-575-0531