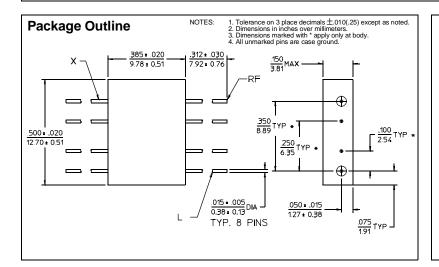
1 to 3500 MHz/+10 to +15 dBm IO /HiRelHermetic Package



PRINCIPAL SPECIFICATIONS											
Model Number	RF/LO Frequency, MHz	LO Drive, Nom.	Operating Range, MHz	Convo Loss Max.		Port Is L-R dB		n, Min. R-X dB	1 dB Compr. Point	Input Intercept Point	1 dB Desens. Level
DTF-2A-125	0 1 - 3500	+10 dBm	10 - 200 200 - 2500 1 - 3500	7.5 8.5 9.5	6.5 7.0 8.0	30 25 25	30 25 25	30 23 20	+7 dBm (typ.)	+14 dBm (typ.)	+5 dBm (typ.)
DTF-4A-125			10 - 200 200 - 2500 1 - 3500 measured in a 5	7.5 8.5 9.5 0Ω syster	6.5 7.0 8.0 n, at nom	35 30 28 inal LO p	30 25 25 ower in	30 25 20 a down coi	+13 dBm (typ.) nverter appli	+20 dBm (typ.) cation	+11 dBm (typ.)



GENERAL SPECIFICATIONS

IF Frequency Range: 1 - 1000 MHz Impedance: 50 Ω nom.

Third Order Intermodulation

Ratio Degradation: 3 dB typ. for IF VSWR of 3.0:1

Useful LO Drive Range: ± 3 dB of nominal

Within ±1 dB of SSB Noise Figure:

Conversion Loss

Weight, nominal: 0.15 oz (4.2 g)

Operating Temperature: - 55° to +85°C

General Notes:

- 1. The DTF-A series Termination Insensitive Mixers cover the frequency range of 1 to 3500 MHz using transmission line hybrid junction techniques to isolate the diode rings from termination mismatch-induced reflections. This means the intermodulation ratio is independent of the IF port load impedance, so this unit is ideal for applications where a high performance mixer must drive a reactive load (e.g., filter) at the IF port. The DTF-A series and related models are available in PC, SMD and connectorized packages.
- 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 routine to very special.
- 3. Merrimac mixers comply with MIL-M-28837 and may be supplied screened for compliance with additional specifications for military and space specifications requiring the highest reliability.

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