DTF-2A-1250 SQ

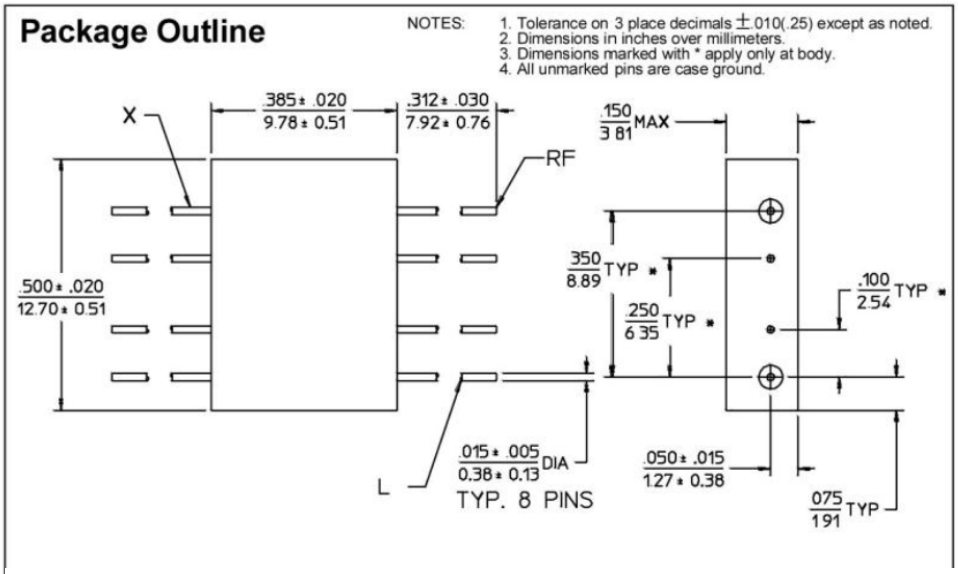
TECHNICAL FEATURE

FEATURES

- 1 to 3500 MHz
- +10 to +15 dBm LO
- Hi-Rel Hermetic Package

Model Number	RF/LO Frequency, MHz	LO Drive, Nom.	Operating Range, MHz	Conversion Loss, dB		Port Isolation, Min.			1 dB Compr. Point	Input Intercept Point	1 dB Desens. Level
				Max.	Typ.	L-R dB	L-X dB	R-X dB			
DTF-4A-1250	1-3500	+15 dBm	10-200	7.5	6.5	35	30	30	+13 dBm (typ.)	+20 dBm (typ.)	+11 dBm (typ.)
			200-2500	8.5	7.0	30	25	25			
			1-3500	9.5	8.0	28	25	20			
All Specifications are as measured in a 50Ω system, at nominal LO power in a down converter application											

Package Outline



General Specifications

IF Frequency Range:	1-1000 MHz
Impedance:	50 Ω Nom.
3rd Order Intermodulation Ratio Degradation:	3 dB typ. For IF VSWR of 3.0:1
Useful LO Drive Range:	+/- 3 dB Nom.
SSB Noise Figure:	Within +/- 1 dB of Conversion Loss
Weight, Nom.:	0.15 oz (4.2g)
Operating Temperature:	-55°C to + 85°C

General Notes:

1. The DTF-A series Termination Insensitive Mixer 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. Crane 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 routing to very special.
3. Crane mixers comply with MIL-M-28837 and is qualified for Space Application requiring the highest reliability.

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