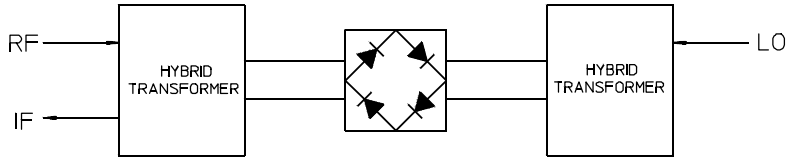


# DTZ-2E-1250

# DOUBLE BALANCED MIXER

10 to 2500 MHz / +10 dBm LO / DC Coupled IF Port / CaseFree

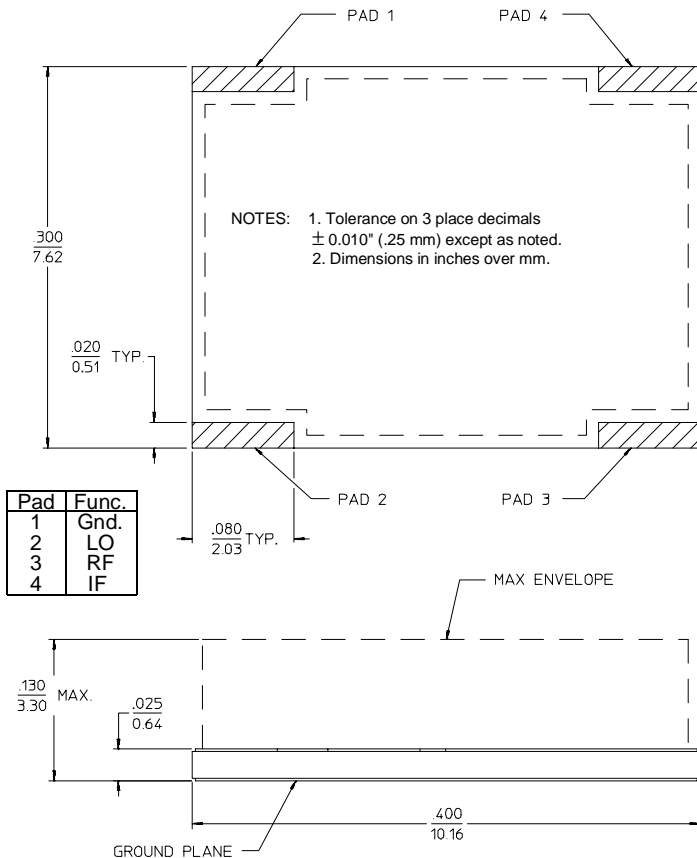


## PRINCIPAL SPECIFICATIONS

Model Number	RF/LO Freq., MHz	IF Freq., MHz	Operating Range, MHz	Conversion Loss, dB		Port Isolation, Min. dB			1 dB Compr. Point, dBm, Typ.	Input Interc. Point, dBm, Typ.
				Max.	Typ.	L-R	L-X	R-X		
DTZ-2E-1250	10-2500	1-1000	10 - 200	7.5	7.0	30	30	30	+7	+14
			200 - 600	8.5	7.0	25	25	23		
			600 - 2500	9.0	8.0	25	25	23		

All specifications are as measured in a 50Ω system, at nominal LO power in a down converter application

## E-Package Outline



## GENERAL SPECIFICATIONS

Impedance:	50 Ω nom.
Third Order Intermod. Ratio Degradation:	3 dB typ. (for IF VSWR of 3.0:1)
LO Drive:	+10 dBm, nom.
Useful LO Drive Range:	±3 dB of nominal
SSB Noise Figure:	Within ±1 dB of Conversion Loss
1 dB Desens. Level:	+5 dBm, typ.
Weight, nominal:	0.02 oz (560 mg)
Operating Temperature:	- 55° to +85°C

### General Notes:

The DTZ-2E-1250 *CaseFree* Termination Insensitive Mixer covers the frequency range of 10 to 2500 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 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.

23Feb96