

- SPACE QUALIFIED
- WIDEBAND
- HI-REL FLATPACK



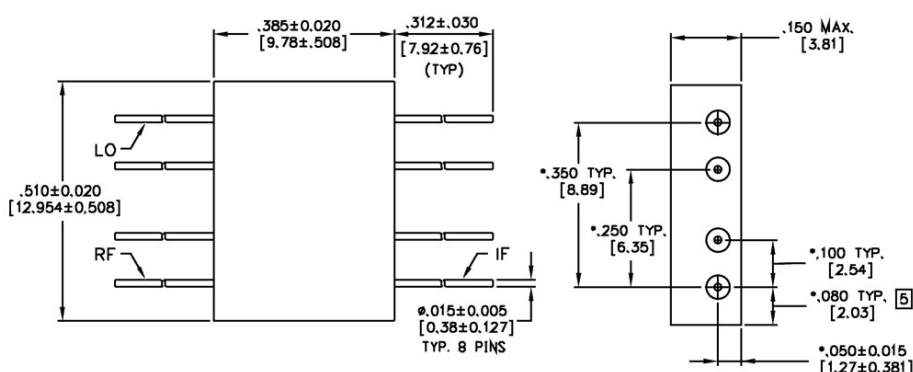
## TECHNICAL DESCRIPTION / APPLICATION

The DTF-2A-1250 SQ is a broadband, high reliability mixer utilizing a termination insensitive design. This mixer has been designed, manufactured and qualified per Merrimac document CENG-0001, "Standard Design Requirements for Space Qualified Devices."

## GENERAL SPECIFICATIONS

MODEL NUMBER	LO/RF BANDWIDTH	IF BANDWIDTH	ISOLATION dB MIN.			CONVERSION LOSS		LO POWER LEVEL
	MHz	MHz	L-R	L-X	R-X	TYP.	MAX.	dBm
DTF-2A-1250 SQ	1 - 3500	1 - 1000	25	25	20	8 dB	9.5 dB	+10 TO +13
RF POWER LEVEL		INPUT INTERCEPT	IMPEDANCE		WEIGHT	OPERATING TEMPERATURE		
dBm MAX		dBm MIN.	NOM.		MAX.			
0		+10	50 OHM		3g	-55° TO + 85° C		

## PACKAGE OUTLINE



### NOTES:

1. TOLERANCE ON 3 PLACE DECIMALS  $\pm .010$  [.25mm] EXCEPT AS NOTED.
2. MAX. IS LARGEST DIMENSION ALLOWED.
3. DIMENSIONS = INCHES [mm]
4. METRIC EQUIVALENTS ARE TO THE NEAREST .01mm.
5. ALL LEADS TO BE WITHIN  $\pm .010$  [.25mm] OF EACH OTHER AT THIS DIMENSION.
6. DIMENSIONS MARKED WITH \* APPLY ONLY AT BODY
7. ALL UNMARKED PINS ARE CASE GROUND.