

- SPACE QUALIFIED
- WIDEBAND
- HI-REL FLATPACK



**TECHNICAL DESCRIPTION / APPLICATION**

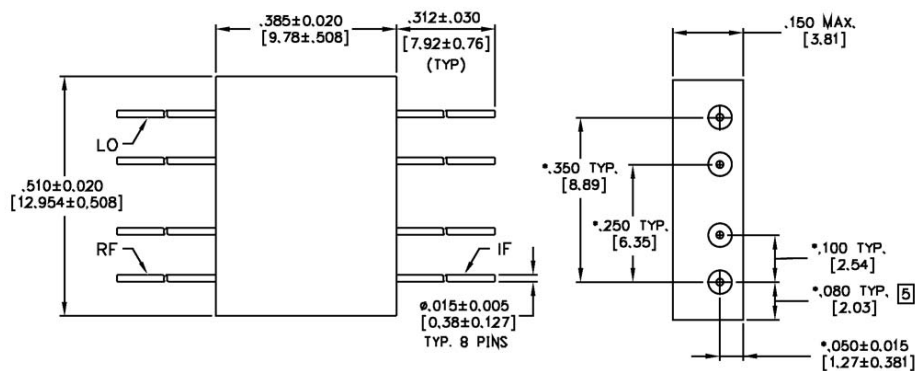
SERIES 03

The DMF-2A-250 SQ is a broadband, high reliability mixer utilizing a 4 diode ring configuration. This 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 MHz	IF BANDWIDTH MHz	ISOLATION dB MIN.			CONVERSION LOSS		LO POWER LEVEL dBm
			L-R	L-X	R-X	TYP.	MAX.	
DMF-2A-250 SQ	10 - 500	DC - 500	35	25	20	7 dB	8 dB	+7
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.