

# DOUBLE BALANCED MIXER - DMF-2A-250 SQ

## TECHNICAL FEATURE

### FEATURES

- Space Qualified
- Wideband
- Hi-Rel Flatpack



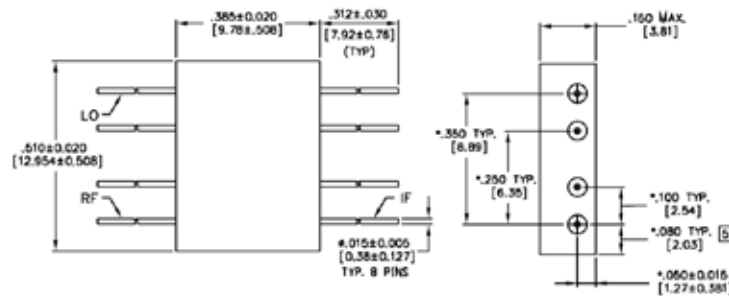
### PERFORMANCE

LO/RF Bandwidth .....	10 - 500 MHz
IF Bandwidth .....	DC - 500 MHz
Isolation .....	35 L-R, 25 L-X, 20 R-X dB min.
Conversion Loss.....	7 dB typ., 8 dB max.
LO Power Level.....	+7
RF Power Level.....	0 dBm max.
Input Intercept .....	+10 dBm min.
Impedance.....	50 Ohm nom.
Operating Temperature .....	-55° to +85° C

### DESCRIPTION

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."

## PACKAGE OUTLINE



- NOTES:
1. TOLERANCE ON 3 PLACE DECIMALS  $\pm .010$  [.25mm] EXCEPT AS NOTED.
  2. MAX. EG. 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.