

All specifications are as measured in a $50 \Omega$ system, at nominal LO power, in a down converter application.


## General Notes:

1. The DMH-4R-1000 Double Balanced Mixer covers the frequency band of 10 to 2500 MHz using two parallel ring modulators to produce a wide bandwidth circuit with very low intermodulation. This mixer is ideal for cellular radio receiver systems. Although designed for drive levels of +13 dBm , it operates well at drive levels ranging from +7 to +17 dBm .
2. This mixer is provided in a half relay package that may be mounted directly to the PCB. In situations where component height is a constraint, the leads may be conformally formed allowing the package to be soldered flush to the PCB.
3. Merrimac mixers comply with MIL-M-28837 and may supplied screened for compliance with additional specifications for military and space applications requiring the highest reliability.

## GENERAL SPECIFICATIONS

LO Drive:
Impedance:
Noise Figure:
+13 dBm nom. $50 \Omega$ nom. Within $\pm 1 \mathrm{~dB}$ of Conversion Loss
Maximum Input Power: 600 mW @ $25^{\circ} \mathrm{C}$
(derate linearly to $0 \mathrm{~mW} @ 125^{\circ} \mathrm{C}$ )
1 dB Compression Point:+7 dBm input, typ.
Input Intercept Point: $\quad+19 \mathrm{dBm}$ typ.
DC Offset Voltage: $\quad 8 \mathrm{mV}$ typ.
Weight:
0.1 oz (2.8 g)

Operating Temperature: $-55^{\circ}$ to $+85^{\circ} \mathrm{C}$

