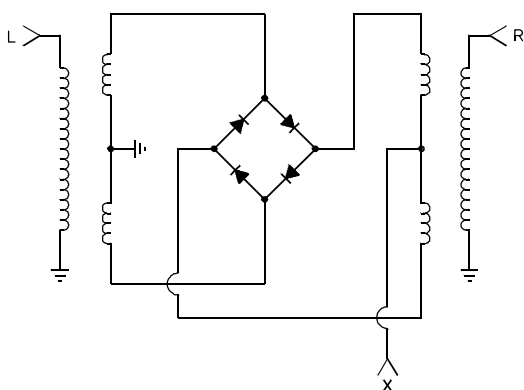


DM M -2A-2800

DOUBLE BALANCED MIXER

1500 to 4200 MHz / +7 to +13 dBm LO / Wideband / SMA Connectors

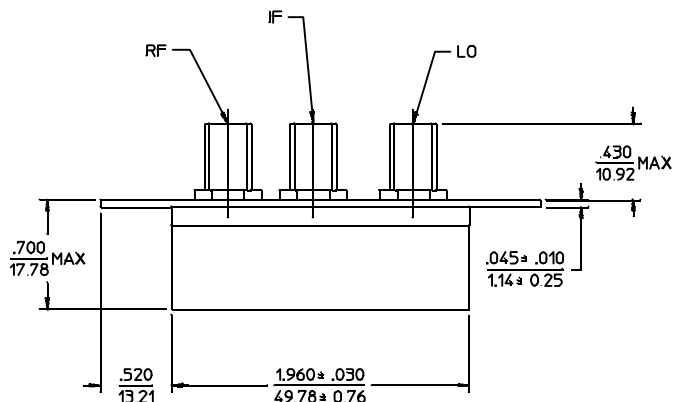
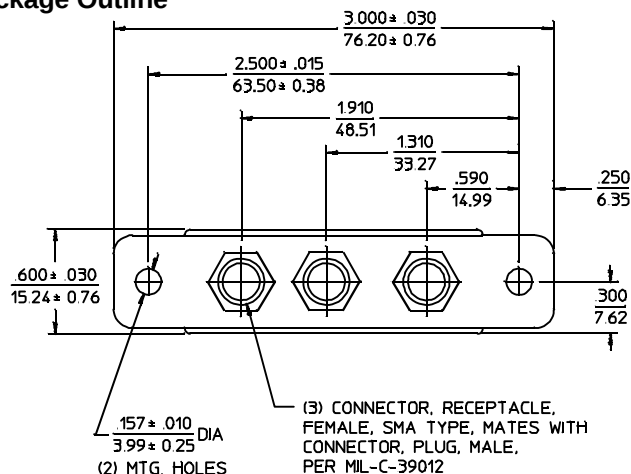


PRINCIPAL SPECIFICATIONS

Model Number	RF/LO Frequency, MHz	IF Frequency, MHz	LO Drive dBm, Nom. (Range)	Conversion Loss, dB,		Port Isolation, L-R L-X		-1 dB Compr. Point	Input Intercept Point
				Max.	Typ.	Min.	Min.		
DMM-2A-2800	1500-4200	DC - 1000	+7 (+7 to 13)	9.0	7.0	25 dB	15 dB	0 dBm (typ)	+12 dBm (typ)

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

Package Outline



NOTES:

1. Tolerance on 3 place decimals $\pm .020(.51)$ except as noted.
2. Dimensions in inches over millimeters.

GENERAL SPECIFICATIONS

Impedance:	50 Ω nom.
Noise Figure:	Within ± 1 dB of Conversion Loss
Polarity Sense:	Positive
Weight:	1.5 oz (42 g)
Operating Temperature:	-55° to +85°C

General Notes:

1. The DMM-2A-2800 Double Balanced Mixer covers the frequency range of 1500 to 4200 MHz using coaxial techniques and special low barrier diodes in the ring modulator to produce a low level mixer with high performance.
2. Merrimac offers a broad selection of Double Balanced Mixers ideal for a variety of signal processing functions with frequencies ranging from 20 kHz to 20 GHz and for applications from routine to very special.
3. Merrimac mixers comply with MIL-M-28837 and may be supplied screened for compliance with additional specifications for military and space applications requiring the highest reliability.

29Apr96