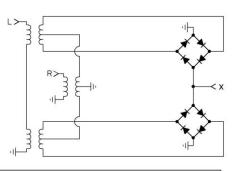
DMM-6-1500 – DOUBLE BALANCED MIXER

TECHNICAL FEATURE

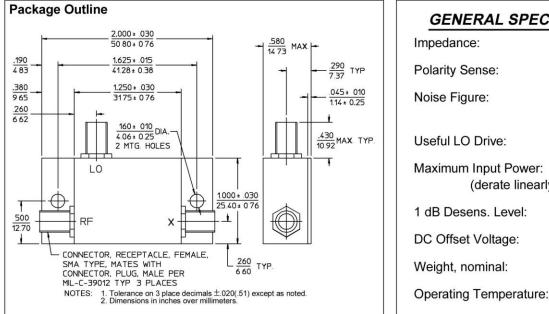
FEATURES

- 10 to 3000 MHz
- +10 to +17 dBm LO
- **SMA Connectors**



PRINCIPAL SPECIFICATIONS											
Model Number	RF/LO Frequency, MHz	LO Drive, Nom.		Operating Range, MHz	Conve Loss Max.		Port Is L-R dB	olatio L-X dB		1 dB Compr. Point	Input Intercept Point
DMM-6-1500	10 - 3000	+13 dBm) 10 - 500 500 - 1000 1000 - 3000	9.0 9.0 9.0	8.5 8.0 8.5	25 30 20	20 25 20	15 20 20	+7 dBm (typ.)	+19 dBm (typ.)
*IF Response extends to DC with increased conversion loss.											

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



GENERAL SPECIFICATIONS

Impedance:	50 Ω nom.				
Polarity Sense:	Negative				
Noise Figure:	Within ±1 dB of Conversion Loss				
Useful LO Drive:	+10 to +17 dBm				
Maximum Input Power: (derate linearly	600 mW @25°C to 0 mW @125°C)				
1 dB Desens. Level:	+5 dBm typ.				
DC Offset Voltage:	8 mV typ.				
Weight, nominal:	1.5 oz (42 g)				
Operating Temperature:	– 55° to +85°C				

General Notes:

1. The DMM-6-1500 Double Balanced Mixers covers the frequency range of 10 to 3000 MHz using two parallel ring modulators to produce a medium level mixer with and extremely wide bandwidth.

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 specifications requiring the highest reliability. 24May96

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