DMF-2R & DMF-4R-5000 DOUBLE BALANCED MIXERS

2 to 8 GHz/+7 to +13 dBmLO/Wideband/Hi-Rel Hermetic Package

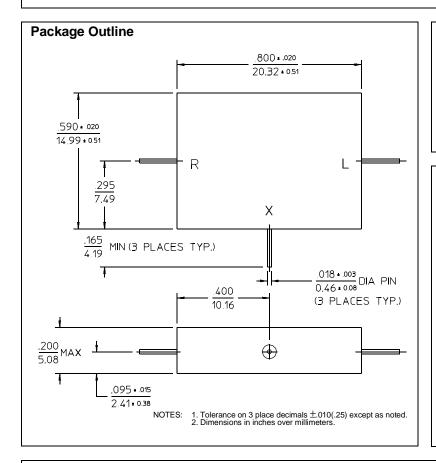


PRINCIPAL SPECIFICATIONS												
Model Number		IF Freq. Range, GHz*	Operating Range, GHz		, Input Intercept Point**	1 dB Comp. Point, dBm, Typ.	Loss,	dB,		L-X	R-X	Pol. Sense
DMF-2R-5000	2-8	DC - 1.5	2 - 6 6 - 8	+7	+13 dBn	n 0	7.0 8.0	6.0 6.5	30 30	15 15	15 15	Pos
DMF-4R-5000	2-8	DC - 1.5	2 - 6 6 - 8	+13	+18 dBn	n +8	7.0 8.0	6.0 6.5	30 30	15 15	15 15	Pos

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

*At the -1 dB points

**Typical with each tone at -10 dBm



GENERAL SPECIFICATIONS

Impedance: 50Ω nom.

Maximum Input Power: 300 mW @ 25°C (Derate linearly to 0 mW @ 125°C)

Weight, nominal: 0.45 oz (13 g)

Operating Temperature: – 55° to +85°C

General Notes:

- 1. The DMF-2R-5000 and DMF-4R-5000 Double Balanced Mixers cover the frequency range of 2 to 8 GHz using microwave techniques and specially selected diodes to achieve wide bandwidth with other desirable high performance characteristics.
- 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.

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