

DMF-2R & DMF-4R5000 DOUBLE BALANCED MIXERS

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



PRINCIPAL SPECIFICATIONS

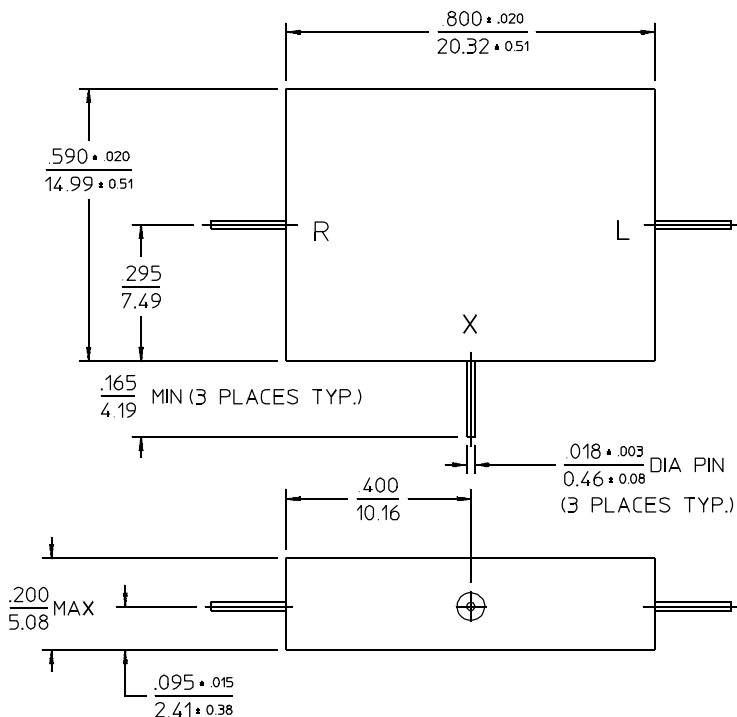
Model Number	RF/LO	IF Freq.	Operating	LO Drive,	Input	1 dB Comp.	Conv.	Port Isol., Min.				
	Freq., GHz	Range, GHz*	Range, GHz	dBm, Nom.	Intercept Point**	Point, dBm, Typ.	Loss, dB, Max. Typ.	L-R	L-X	R-X	Pol. Sense	
DMF-2R-5000	2 - 8	DC - 1.5	2 - 6	+7	+13 dBm	0	7.0	6.0	30	15	15	Pos
			6 - 8				8.0	6.5	30	15	15	
DMF-4R-5000	2 - 8	DC - 1.5	2 - 6	+13	+18 dBm	+8	7.0	6.0	30	15	15	Pos
			6 - 8				8.0	6.5	30	15	15	

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

Package Outline



GENERAL SPECIFICATIONS

Impedance: 50 Ω 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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