4 to 18 GHz/+10 to+13 dBmLO/Wideband/Hi-Rel Hermetic Package



PRINCIPAL SPECIFICATIONS									
Model Number	RF/LO Frequency, GHz	IF Frequency, Range, (-1 dB)	LO Drive, dBm, Nom.	Conversion Loss, dB, Max. Typ.		Port I L-R dB	,		
DMF-2S-7000	4 - 18	DC - 2.5 GHz	+10	8.5	6.5	25	15	15	Negative
All specifications are as measured in a 50Ω system, at nominal LO power, in a down converter application.									

Flatpack Outline S-style $560 \pm .020$ 14.22 ± 0.51 R .260 6.60 TYP X $R\frac{.062}{1.57}TYP$ (4 PLACES) .180 ± .020 $\frac{.015 \pm .003}{0.38 \pm 0.08}$ DIA TYP 457 ± 051 (3 PLACES) 7.11 $\frac{.200}{5.08}$ MAX .015 ± .015

1. Tolerance on 3 place decimals \pm .010(.25) except as noted. 2. Dimensions in inches over millimeters.

2.41± 0.38

GENERAL SPECIFICATIONS

Impedance: 50 Ω nom. Input Intercept Point: +13 dBm, typ. (each tone -10 dBm) 1 dB Comp. Point: 0 dBm input, typ.

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

Weight: 0.25 oz (7 g) nom. Operating Temperature: -55° to +85°C

General Notes:

- 1. The DMF-2S-7000 Double Balanced Mixer covers the frequency range of 4 to 18 GHz using microwave techniques and specially selected diodes to achieve a 2.5 GHz 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.
- 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