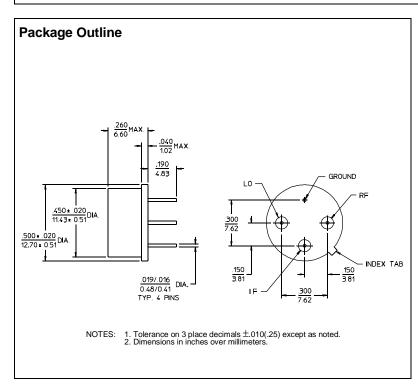
25 to 65 GHz/+7 to +10 dBm 10 /Low Loss /High Performance /Hermetic TO-8 Package



PRINCIPAL SPECIFICATIONS										
Model Number	RF/LO Freq., MHz	IF Freq., MHz	Operating Range, MHz	Conversion Loss, dB, Max. Typ.					VSWR Typ. LO RF	
DMT-2C-4000	2500 - 6500	DC - 2500	2500 - 3000	7.0	5.0	35	20	15	1.5:1	1.7:1
			3000 - 4000	7.0	4.5	35	25	13	1.5:1	1.5:1
			4000 - 6500	7.0	4.5	30	25	13	2.5:1	1.4:1
,	All specifications a	re as measured	d in a 50Ω system, at	nominal LO	Power, in	a down coi	nverter	application	٦.	



GENERAL SPECIFICATIONS

Impedance: 50Ω

LO Drive: +7 dBm nom.

Third Order Input Intercept: +12 dBm typ.

Noise Figure: ± 1 dB of

Conversion Loss

1 dB Compression Point: 0 dBm min.

(Referenced to Input)

1 dB Desensitization Point: – 2 dBm min.

(Referenced to Input)

Polarity Sense: Positive

DC Offset Voltage: 5 mV typ.

Weight, nom: 0.1 oz (2.8 g)

Operating Temperature: -55° to +85°C

General Notes:

- 1. The DMT-2C-4000 Double Balanced Mixer covers the frequency range of 2.5 to 6.5 GHz using a four diode ring modulator configuration for high performance and minimum size. The TO-8 package provides high reliability at low cost.
- 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.

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