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TECHNOLOGY GROUP

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so your equipment works exactly as you specify.

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Expert team | Trust guarantee | 100% satisfaction

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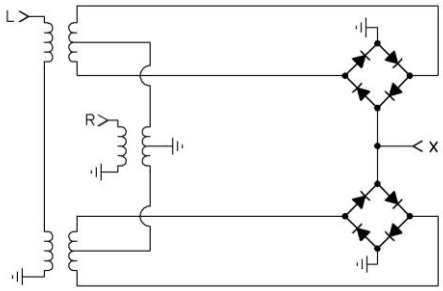
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DMM-6-1500 – DOUBLE BALANCED MIXER

TECHNICAL FEATURE

FEATURES

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

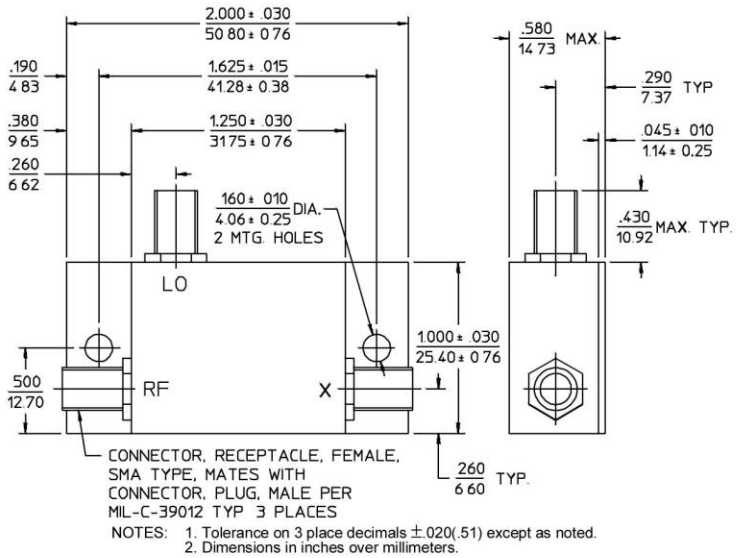


PRINCIPAL SPECIFICATIONS

Model Number	RF/LO Frequency, MHz	LO Drive, Nom.	*IF Freq., MHz	Operating Range, MHz	Conversion Loss, dB, Max.	Conversion Loss, dB, Typ.	Port Isolation, Min. L-R dB	Port Isolation, Min. L-X dB	Port Isolation, Min. R-X dB	1 dB Compr. Point	Input Intercept Point
DMM-6-1500	10 - 3000	+13 dBm	10 - 1000	10 - 500	9.0	8.5	25	20	15	+7 dBm (typ.)	+19 dBm (typ.)
				500 - 1000	9.0	8.0	30	25	20		
				1000 - 3000	9.0	8.5	20	20	20		

*IF Response extends to DC with increased conversion loss.
All specifications are as measured in a 50Ω system, at nominal LO power, in a downconverter application

Package Outline



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:	600 mW @25°C (derate linearly 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.

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Crane Aerospace & Electronics
Microwave Solutions – Merrimac Industries
41 Fairfield Place, West Caldwell, NJ 07006
+ 1.973.575.1300 ext. 1309 • mw@crane-eg.com
www.craneae.com/mw

DMM61500.doc. This revision supersedes all previous releases. All technical information is believed to be accurate, but no responsibility is assumed for errors.
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Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

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