



MICROWAVE DYNAMICS

## THE LO-MIX SERIES

A COMPACT LO, MIXER AND AMPLIFIER,  
2-45 GHz ALL IN ONE PACKAGE



LO-MIX100

Free Running LO, Mixer and Amplifier

## FEATURES

- \* LOW COST
- \* ONE SUPER COMPACT PACKAGE
- \* WIDE BANDWIDTH 2-45 GHz
- \* UP TO + 25 dBm OUTPUT POWER

- \* LOW VSWR 2.5:1 MAX
- \* LOW POWER CONSUMPTION
- \* LOW PHASE NOISE
- \* INTERNAL VOLTAGE REGULATOR

## DESCRIPTION

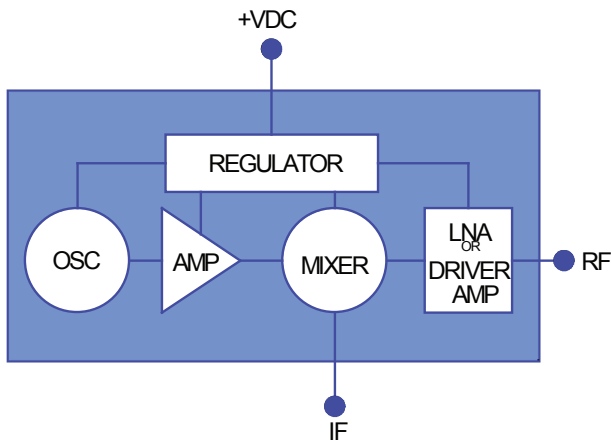
**LO-MIX Series** utilizes latest MMIC technology to provide a highly stable, low noise signal source (DRO), a mixer and a power amplifier or LNA in one small compact package.

**LO-MIX** is designed to solve the matching issues of LO, MIXER and AMPLIFIER together. All these components are internally matched to save time, space and cost for end-users. LO frequency up to 20 GHz (fundamental), and harmonically balanced mixers used for higher frequencies.

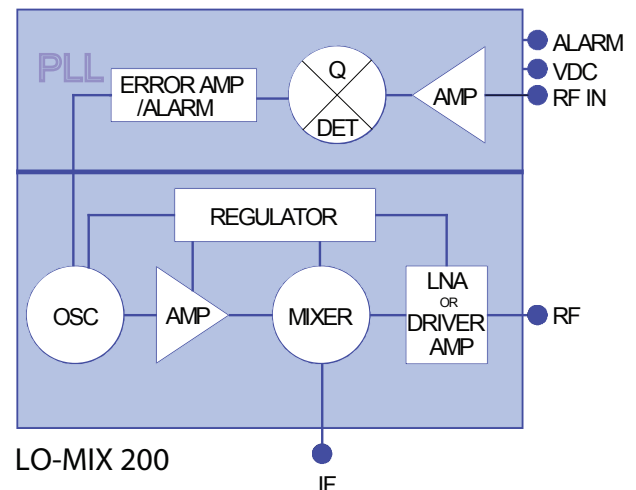
**LO-MIX** is available with different models:

- Free Running LO (LO-MIX100 Series)
- External Reference PLO (LO-MIX200 Series)
- Internal Reference PLO (LO-MIX300 Series)
- External 10MHz Reference PLO (LO-MIX400 Series)

**LO-MIX** models are available with driver amplifier (Up-Converter) or LNA (Down Converter). LO-MIX with driver amplifier up to +25 dBm (optional) is available.



LO-MIX 100



LO-MIX 200

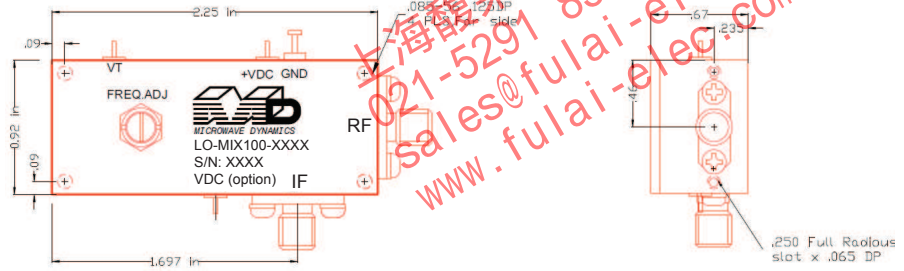
MICROWAVE DYNAMICS, 16541 Scientific Way, Irvine, CA 92618

PHONE: 949-679-7788, FAX: 949-679-7748

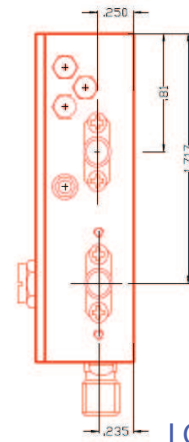
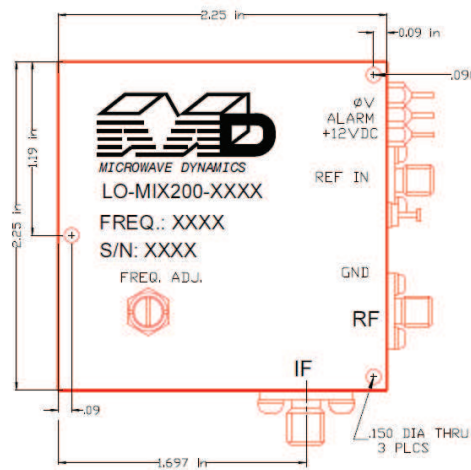
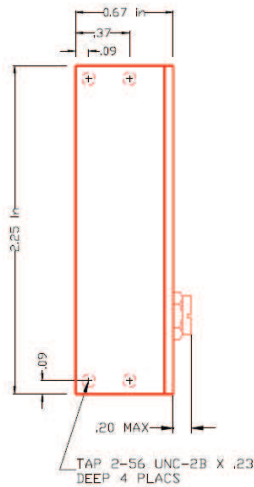
Web Page: <http://www.microwave-dynamics.com> Email: [info@microwave-dynamics.com](mailto:info@microwave-dynamics.com)

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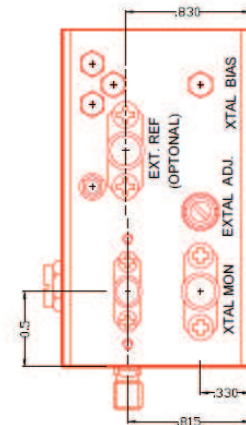
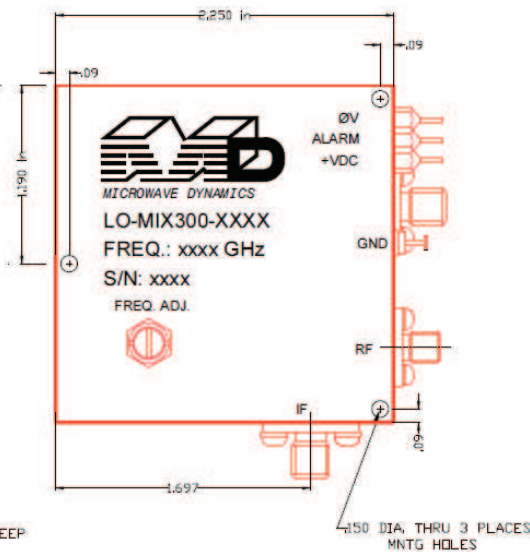
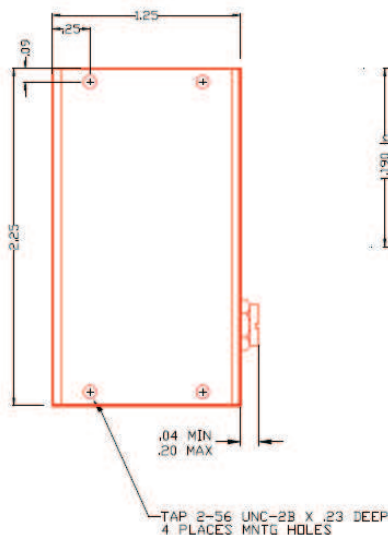
MD Model Number	Model Description	Frequency Range	IF (GHz)	Conversion Gain (TYP)	Output Power (TYP)	Supply Requirements (VDC @ I TYP)
LO-MIX100-XXXX	Free Running LO & Downconverter	2-45 GHz	DC-8.0	5 dB min	+ 0 dBm	8 V @ 150 mA
LO-MIX101-XXXX	Free Running LO & Upconverter	2-45 GHz	DC-8.0	5 dB min	+ 7 dBm	8 V @ 150 mA
LO-MIX200-XXXX	Ext Ref PLO & Downconverter	2-45 GHz	DC-8.0	5 dB min	+ 0 dBm	8 V @ 300 mA
LO-MIX201-XXXX	Ext Ref PLO & Upconverter	2-45 GHz	DC-8.0	5 dB min	+ 7 dBm	12 V @ 300 mA
LO-MIX300-XXXX	Int Ref PLO & Downconverter	2-45 GHz	DC-8.0	5 dB min	+ 0 dBm	12 V @ 400 mA
LO-MIX301-XXXX	Int Ref PLO & Upconverter	2-45 GHz	DC-8.0	5 dB min	+ 7 dBm	12 V @ 400 mA
LO-MIX400-XXXX	Ext 10 MHz Ref PLO & Downconverter	2-45 GHz	DC-8.0	5 dB min	+ 0 dBm	12 V @ 400 mA
LO-MIX401-XXXX	Ext 10 MHz Ref PLO & Upconverter	2-45 GHz	DC-8.0	5 dB min	+ 7 dBm	12 V @ 400 mA



LO-MIX 100 Series



LO-MIX 200 Series



LO-MIX 300/400 Series

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