



Field Replaceable SMA Mixer from 2 GHz to 18 GHz with an IF Range from 1 GHz to 6 GHz and LO Power of +14 dBm

The FMMX1032 is a broadband Triple Balanced Mixer that operates across an RF and LO frequency range from 2 GHz to 18 GHz with an IF frequency range of 1 GHz to 6 GHz and supports an LO drive level of +14 dBm max. The design utilizes high performance GaAs Schottky diodes in a balanced configuration to produce exceptional typical performance that includes Conversion Loss of 8 dB, 25 dB LO to RF Isolation, and 30 dB LO to IF Isolation. The rugged compact package assembly supports female SMA connectors on the RF, LO and IF port.

Electrical Specifications

Description	Min	Тур	Max	Units
RF Frequency Range	2		18	GHz
LO Frequency Range	2		18	GHz
IF Frequency Range	1		6	GHz
Impedance		50		Ohms
Conversion Loss		8		dB
LO to RF Isolation		25		dB
LO to IF Isolation		30		dB
LO Input Power	+10		+14	dBm

Electrical Specification Notes:

Max LOin (dBm): +20dBm Max RF/IF (dBm): +10dBm

DC Bias at the RF input may damage the amplifier

All specifications are tested under case temperature @25°C

Mechanical Specifications

Size

 Length
 0.811 in [20.6 mm]

 Width
 0.591 in [15.01 mm]

 Height
 0.276 in [7.01 mm]

Configuration

Design Triple Balanced
Package Type Connectorized
Connector Option Field Replaceable
RF Connector SMA Female
LO Connector SMA Female
IF Connector SMA Female

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



Features:

- Triple Balanced Mixer Design
- LO & RF Frequency Range:
 2 GHz to 18 GHz
- IF Frequency Range: 1 GHz to 6 GHz
- LO Drive Level +14 dBm
- Conversion Loss: 8 dB typ
- LO to RF Isolation: 25 dB typ
- LO to IF Isolation: 30 dB typ
- RF/LO Connectors: Female SMA
- IF Connector: Female SMA
- Balanced Configuration uses GaAs Schottky diodes

Applications:

- · Electronic Warfare
- Point-to-Point Radios
- Point-to-Multipoint Radios
- VSAT
- Radar
- Space Systems
- Test Instrumentation
- Sensors
- Tlecom Infrastructure
- Military End-Use

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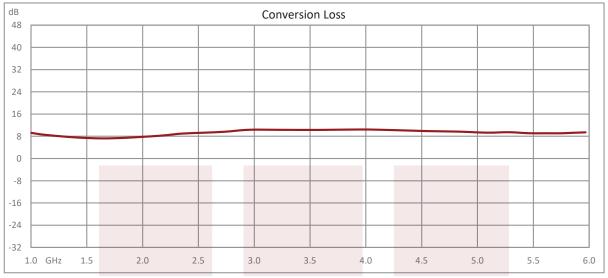
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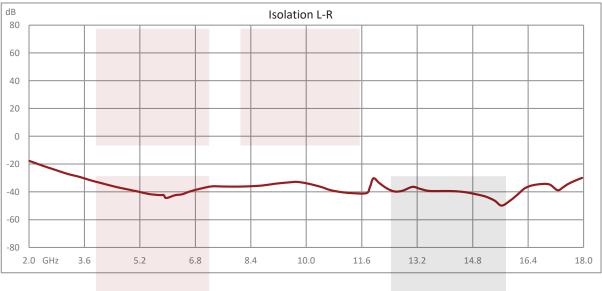
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Typical Performance Data











Field Replaceable SMA Mixer from 2 GHz to 18 GHz with an IF Range from 1 GHz to 6 GHz and LO Power of +14 dBm from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: Field Replaceable SMA Mixer from 2 GHz to 18 GHz with an IF Range from 1 GHz to 6 GHz and LO Power of +14 dBm FMMX1032

URL: https://www.fairviewmicrowave.com/field-replaceable-sma-mixer-0-dbm-fmmx1032-p.aspx

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