



Field Replaceable SMA Mixer from 5 GHz to 20 GHz with an IF Range from DC to 3 GHz and LO Power of +20 dBm

The FMMX1008 is a broadband double balanced mixer that operates across an RF and LO frequency range from 5 to 20 GHz with an IF frequency range of DC to 3 GHz and supports an LO drive level of +20 dBm typical. The 50 ohm design utilizes high performance GaAs Schottky diodes in a balanced configuration that's DC coupled. Exceptional typical performance includes 10 dB conversion loss, 30 dB LO to RF Isolation, and 17 dB LO to IF Isolation. The compact and rugged drop-in pin package supports field replaceable SMA connectors, operates over a temperature range of 0°C to +50°C, and is designed to meet MIL-STD-202 environmental test conditions for Humidity, Shock, Vibration, and Altitude for high reliability.

Electrical Specifications +25°C, 50 Ohm System

| Min | Тур | Max | Units |
|-----|--------|--------------------------------------|--|
| 5 | | 20 | GHz |
| 5 | | 20 | GHz |
| DC | | 3 | GHz |
| | 50 | | Ohms |
| | 10 | | dB |
| | 30 | | dB |
| | 17 | | dB |
| | | +10 | dBm |
| | +20 | | dBm |
| | | +10 | dBm |
| | 5 5 | 5 5 DC 50 10 30 17 | 5 20 5 20 DC 3 50 10 30 17 +10 +20 |

Mechanical Specifications

Weight 0.04 lbs [18.14 g]

Configuration

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

Environmental Specifications

Temperature

Operating Range 0 to +50 deg C
Humidity MIL-STD-202F, Method 103B, Condition
B
Shock MIL-STD-202F, Method 213B, Condition
B
Vibration MIL-STD-202F, Method 204D, Condition

IVII

Altitude MIL-STD-202F, Method 105C, Condition

В



Features:

- Double Balanced Mixer Module
- RF/LO Frequency 5 to 20 GHz
- Wide IF Bandwidth DC to 3 GHz
- Balanced Design utilizes GaAs Schottky Diodes
- No external components or matching circuitry
- MIL-Spec Compliant
- DC Coupled Design
- LO Drive level +20 dBm
- Low Conversion loss 10 dB
- High LO/RF Isolation 30 dB
- Field Replaceable SMA Connectors
- RF/IF Input up to +10 dBm
- Operating Temperature Range 0°C to +50°C

Applications:

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

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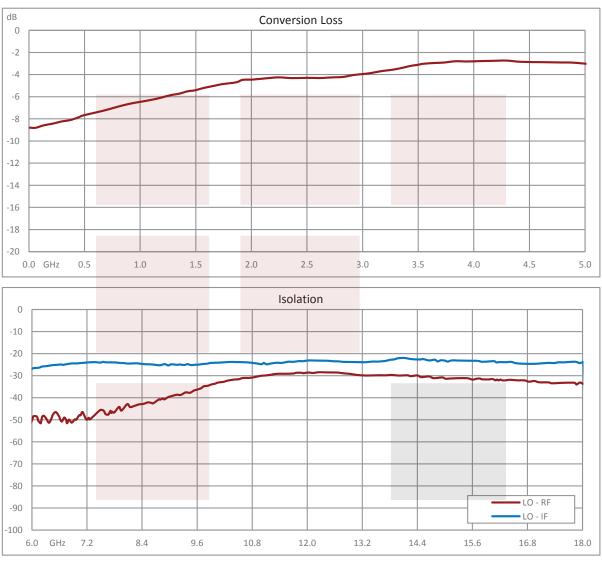


Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data







Field Replaceable SMA Mixer from 5 GHz to 20 GHz with an IF Range from DC to 3 GHz and LO Power of +20 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 Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: Field Replaceable SMA Mixer from 5 GHz to 20 GHz with an IF Range from DC to 3 GHz and LO Power of +20 dBm FMMX1008

URL: https://www.fairviewmicrowave.com/field-replaceable-sma-mixer-20-dbm-fmmx1008-p.aspx





