



SMA Mixer from 2.25 GHz to 18 GHz with an IF Range from DC to 3 GHz and LO Power of +13 dBm

The FMMX1026 is a broadband Double Balanced Mixer that operates across an RF and LO frequency range from 2.25 GHz to 18 GHz with an IF frequency range of DC to 3 GHz and supports an LO drive level range from +10 to +16 dBm, with +13 dBm nominal. The design utilizes advanced MMIC technology and exhibits exceptional typical performance that includes Conversion Loss of 11 dB, RF to LO and LO to IF isolation levels up to 35 dB, and an input IP3 level of +20 dBm. The 50 ohm hybrid module does not require any external components or matching circuitry. The rugged compact package assembly supports female SMA connectors, operates over a temperature range of -40°C to +85°C, and is designed to meet MIL-STD-202 environmental test conditions for Humidity, Shock, Vibration, and Altitude for high reliability.

Electrical Specifications

Description	Min	Тур	Max	Units
RF Frequency Range	2.25		18	GHz
LO Frequency Range	2.25		18	GHz
IF Frequency Range	DC		3	GHz
Impedance		50		Ohms
Conversion Loss		11	13	dB
LO to RF Isolation	20	35		dB
LO to IF Isolation	10	20		dB
RF to IF Isolation	8	12		dB
RF Port VSWR		3.5:1	4.5:1	
LO Port VSWR		2.5:1	5:1	
IF Port VSWR		2:1	3:1	
Input at IP3	+18	+20		dBm
RF Input Power			+10	dBm
LO Input Power		+13		dBm

Mechanical Specifications

Weight 0.042 lbs [19.05 g]

Configuration

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

Environmental Specifications Temperature

Operating Range -40 to +85 deg C Storage Range -65 to +150 deg C



Features:

- Broadband Double
 Balanced Mixer Design
- LO & RF Frequency Range: 2.25 GHz to 18 GHz
- IF Frequency Range: DC to 3 GHz
- LO Drive Level Range:
 +10 dBm to +16 dBm
- Advanced MMIC Technology
- Conversion Loss: 11 dB typ
- Port Isolations up to 35 dB typ
- Input IP3 Level: +20 dBm
- RF Input Up to +10 dBm
- SMA Connectors
- Operating Temperature Range: -40°C to +85°C
- Designed to Meet MIL-STD-202 Environmental Test Conditions

Applications:

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

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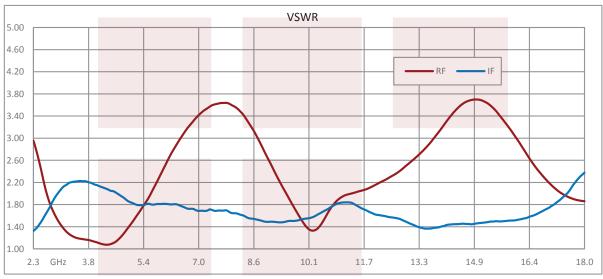
Humidity MIL-STD-202F, Method 103B, Condition B
Shock MIL-STD-202F, Method 213B, Condition B
Vibration MIL-STD-202F, Method 204D, Condition B
Altitude MIL-STD-202F, Method 105C, Condition B

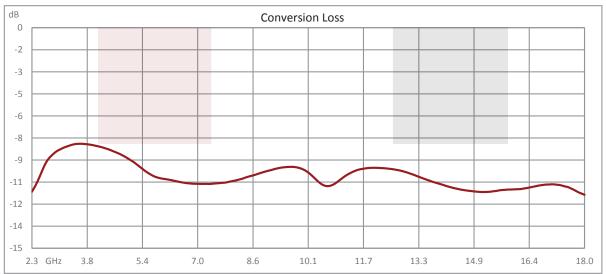
Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

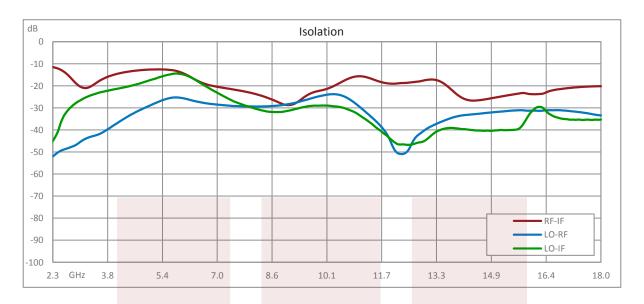
Typical Performance Data











SMA Mixer from 2.25 GHz to 18 GHz with an IF Range from DC to 3 GHz and LO Power of +13 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: SMA Mixer from 2.25 GHz to 18 GHz with an IF Range from DC to 3 GHz and LO Power of +13 dBm FMMX1026

URL: https://www.fairviewmicrowave.com/sma-mixer-13-dbm-fmmx1026-p.aspx

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