



# SMA Mixer From 2 GHz to 18 GHz With an IF Range From DC to 600 MHz And LO Power of +10 dBm

Fairview Microwave's FMFX1052 is a double balanced mixer module that operates across an RF and LO frequency range of 2 GHz to 18 GHz with an IF frequency range of DC to 600 MHz. This double balanced mixer provides excellent LO to RF isolation of 28 dB. The FMFX1052 also provides low conversion loss of 6.5 dB. RF Mixers are commonly used to convert from one frequency to another. This is done by "mixing" two signals of different frequencies, also known as heterodyning.



Description	Min	Тур	Max	Units
RF Frequency Range	2		18	GHz
LO Frequency Range	2		18	GHz
IF Frequency Range	DC		600	MHz
Impedance		50		Ohms
Conversion Loss		6.5	8	dB
LO to RF Isolation	20	28		dB
LO to IF Isolation	18	25		dB
Input at P1dB		+4		dBm
Input at IP3		+14		dBm
LO Input Power		+10		dBm
Input Power (CW)			0.2	Watts
Input Current (Peak)			0.1	Α

Electrical Specification Notes: Values at 25°C, sea level.

Peak input power for any single port: +23 dBm peak

### **Mechanical Specifications**

Size

 Length
 1.55 in [39.37 mm]

 Width
 0.31 in [7.87 mm]

 Height
 0.967 in [24.56 mm]

Housing Material and Plating Passivated Stainless Steel

Configuration

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

# **Environmental Specifications Temperature**

Operating Range -45 to +90 deg C

# FAIRVIEW MICROWAVE FMFX1052 T SAME

## **Features:**

- Double Balanced Mixer Module
- RF/LO Frequency 2 GHz to 18 GHz
- IF Bandwidth DC to 600 MHz
- LO Drive Level +10 dBm
- Low Conversion Loss of 6.5 dB
- High LO/RF Isolation of 28 dB

## **Applications:**

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

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056

Tel: 1-800-715-4396 / (972) 649-6678

Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





Storage Range

-65 to +100 deg C

**Compliance Certifications** (see product page for current document)

#### **Plotted and Other Data**

Notes:

SMA Mixer From 2 GHz to 18 GHz With an IF Range From DC to 600 MHz And LO Power of +10 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 GHz to 18 GHz With an IF Range From DC to 600 MHz And LO Power of +10 dBm FMFX1052

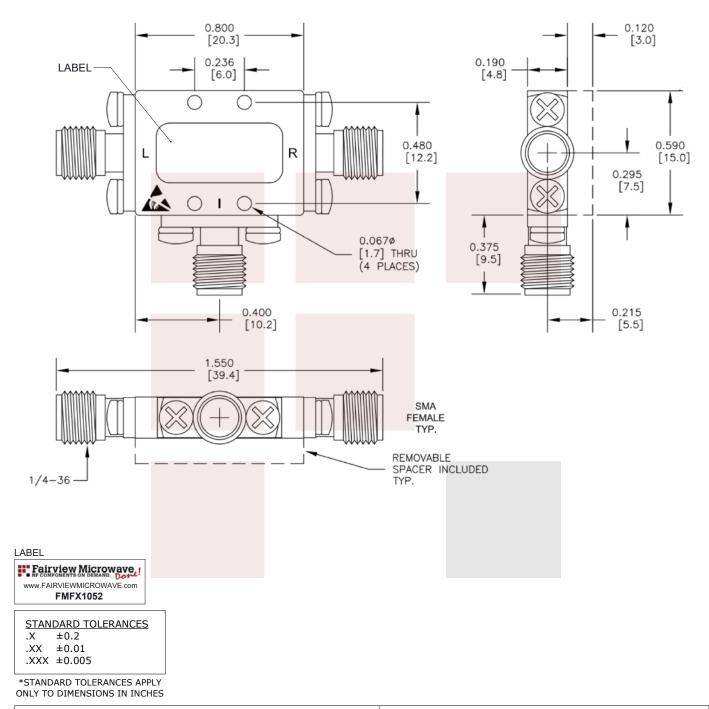
URL: https://www.fairviewmicrowave.com/sma-mixer-10-dbm-fmfx1052-p.aspx

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301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689







Fairview Microwave	NOTES:  1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  3. DIMENSIONS ARE IN INCHES [mm].					
SMA Mixer From 2 GHz to 18 GHz With an IF Range	DWG NO FMFX1052			CAGE CODE 3FKR5		
From DC to 600 MHz And LO Power of +10 dBm	CAD FILE 05/24/18	SHEET 1 OF 1	SCAL	E N/A	SIZE A	7361