



SMA Mixer From 5 GHz to 18 GHz With an IF Range From DC to 4 GHz And LO Power of +10 dBm

Fairview Microwave's FMFX1053 is a double balanced mixer module that operates across an RF and LO frequency range of 5 GHz to 18 GHz with an IF frequency range of DC to 4 GHz. This double balanced mixer provides excellent LO to RF isolation of 35 dB. The FMFX1053 also provides low conversion loss of 6.2 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.



Features:

- Double Balanced Mixer Module
- RF/LO Frequency 5 GHz to 18 GHz
- IF Bandwidth DC to 4 GHz
- LO Drive Level +10 dBm
- Low Conversion Loss of 6.2 dB
- High LO/RF Isolation of 35 dB

Applications:

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

Electrical Specifications

Description	Min	Тур	Max	Units
RF Frequency Range	5		18	GHz
LO Frequency Range	5		18	GHz
IF Frequency Range	DC		4	GHz
Impedance		50		Ohms
Conversion Loss		6.2	8.5	dB
LO to RF Isolation	25	35		dB
LO to IF Isolation	20	30		dB
Input at P1dB		+4		dBm
Input at IP3		+14		dBm
LO Input Power		+10	+13	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 0.19 in [4.83 mm] 0.97 in [24.64 mm] Height

Housing Material and Plating Passivated Stainless Steel

Configuration

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

Environmental Specifications Temperature

Operating Range -45 to +90 deg C Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056

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Storage Range

-65 to +100 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

SMA Mixer From 5 GHz to 18 GHz With an IF Range From DC to 4 GHz 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 5 GHz to 18 GHz With an IF Range From DC to 4 GHz And LO Power of +10 dBm FMFX1053

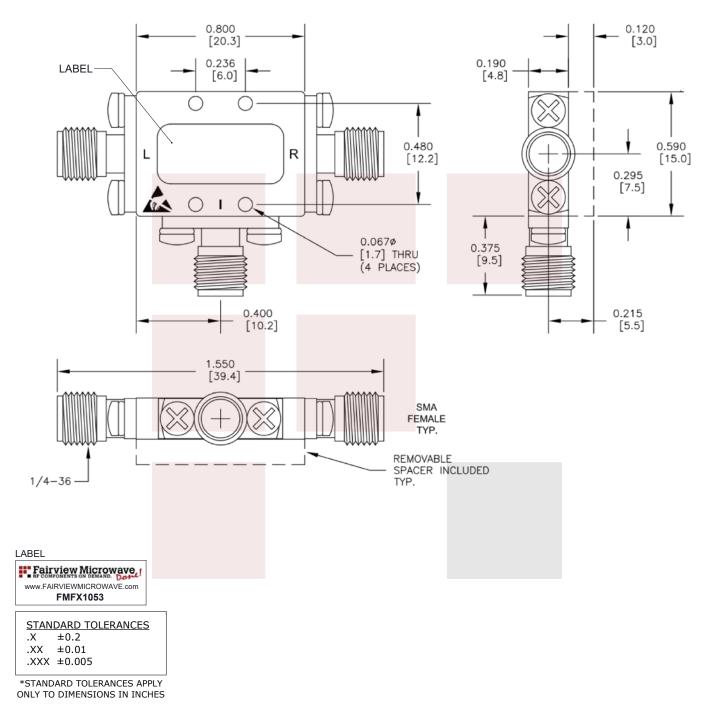
URL: https://www.fairviewmicrowave.com/sma-mixer-10-dbm-fmfx1053-p.aspx

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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].

TITLE

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