



SMA Mixer From 6 GHz to 18 GHz With an IF Range From 1.5 GHz to 8 GHz And LO Power of +10 dBm

Fairview Microwave's FMFX1054 is a triple balanced mixer module that operates across an RF and LO frequency range of 6 GHz to 18 GHz with an IF frequency range of 1.5 GHz to 8 GHz. This triple balanced mixer provides excellent LO to RF isolation of 27 dB. The FMFX1054 also provides low conversion loss of 7 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	6		18	GHz
LO Frequency Range	6		18	GHz
IF Frequency Range	1.5		8	GHz
Impedance		50		Ohms
Conversion Loss		7	9	dB
LO to RF Isolation	20	27		dB
LO to IF Isolation	20	25		dB
Input at P1dB		+4		dBm
Input at IP3		+14		dBm
LO Input Power		+10	+13	dBm
Input Power (CW)			0.35	Watts
Input Power (Peak) 1 usec pulse, 0.1% c	luty cycle		0.5	Watts

0.25

Electrical Specification Notes:

Values at 25°C, sea level.

Input Current (Peak)

Mechanical Specifications

Size

 Length
 1.55 in [39.37 mm]

 Width
 0.31 in [7.87 mm]

 Height
 0.965 in [24.51 mm]

Housing Material and Plating Passivated Stainless Steel

Configuration

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



Features:

- Triple Balanced Mixer Module
- RF/LO Frequency 6 GHz to 18 GHz
- IF Bandwidth 1.5 GHz to 8 GHz
- LO Drive Level +10 dBm
- Low Conversion Loss of 7 dB
- High LO/RF Isolation of 27 dB

Applications:

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

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Environmental Specifications Temperature

Operating Range -55 to +125 deg C Storage Range -65 to +150 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

SMA Mixer From 6 GHz to 18 GHz With an IF Range From 1.5 GHz to 8 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 6 GHz to 18 GHz With an IF Range From 1.5 GHz to 8 GHz And LO Power of +10 dBm FMFX1054

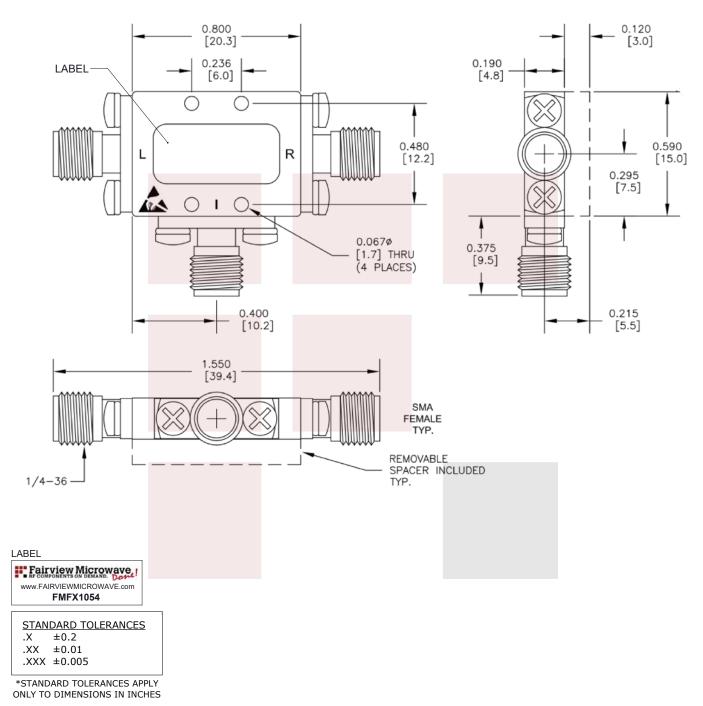
URL: https://www.fairviewmicrowave.com/sma-mixer-10-dbm-fmfx1054-p.aspx

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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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