



WR-15 Waveguide Up Converter Mixer From 50 GHz to 75 GHz, With an IF Range From DC to 18 GHz And LO Power of +13 dBm, UG-385/U Flange

The FMMU1002 is a full waveguide band up converter mixer with an LO and RF frequency range of 50 to 75 GHz (V Band). The IF frequency range is DC to 18 GHz with a nominal LO drive level of +13 dBm. The double balanced circuit design utilizes high performance GaAs Schottky beam lead diodes. Conversion loss is 8 dB typical and flat across the entire frequency band. The gold plated compact package design uses integrated WR-15 with UG-385/U-MOD waveguide flange interfaces for the RF and LO ports and a female SMA connector for the IF port.

Electrical Specifications

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Description	Min	Тур	Max	Units
Frequency Range	50		75	GHz
LO Frequency Range	50		75	GHz
IF Frequency Range	DC		18	GHz
Conversion Loss		8		dB
LO Port Power		13	15	dBm

Mechanical Specifications

Size

Length 1.4 in [35.56 mm] Width/Diameter 0.75 in [19.05 mm] Height 0.75 in [19.05 mm] Weight 0.0625 lbs [28.35 g]

Configuration

Design Up Converter

Description	RF Port	LO Port	IF Port
Туре	WR-15	WR-15	SMA Female

Environmental Specifications

Temperature

Operating Range 0 to +50 deg C



Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



Features:

- V Band (50 to 75 GHz) full waveguide up converter
- Broad IF Frequency Range: DC to 18 GHz
- LO Drive level: +13 dBm nominal
- RF & LO Ports: WR-15 with UG-385/U-MOD Flange
- · Double Balanced design
- Low Capacitance GaAs Schottky Beam Lead diodes
- Gold Plated Compact Package Design
- · Operating Temperature: $0^{\circ}C$ to $+50^{\circ}C$

Applications:

- Transmitter Subsystems
- Military Communications
- Commercial Communications
- Instruments and Test Equipment

Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013

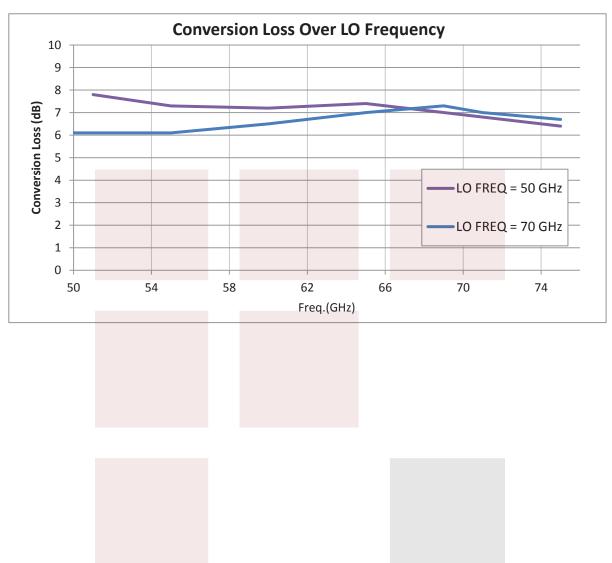
Tel: 1-800-715-4396 / (972) 649-6678

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

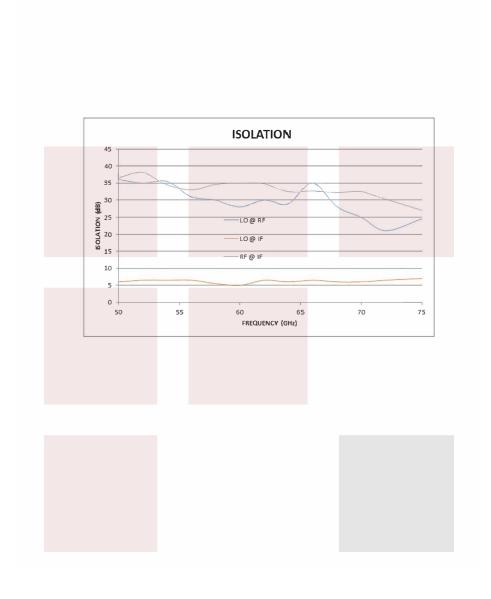




Typical Performance Data







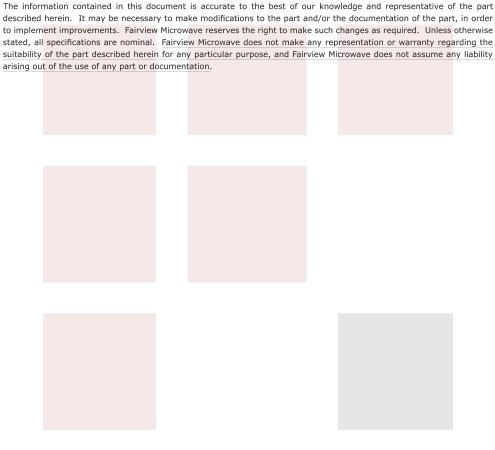




WR-15 Waveguide Up Converter Mixer From 50 GHz to 75 GHz, With an IF Range From DC to 18 GHz And LO Power of +13 dBm, UG-385/U Flange from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

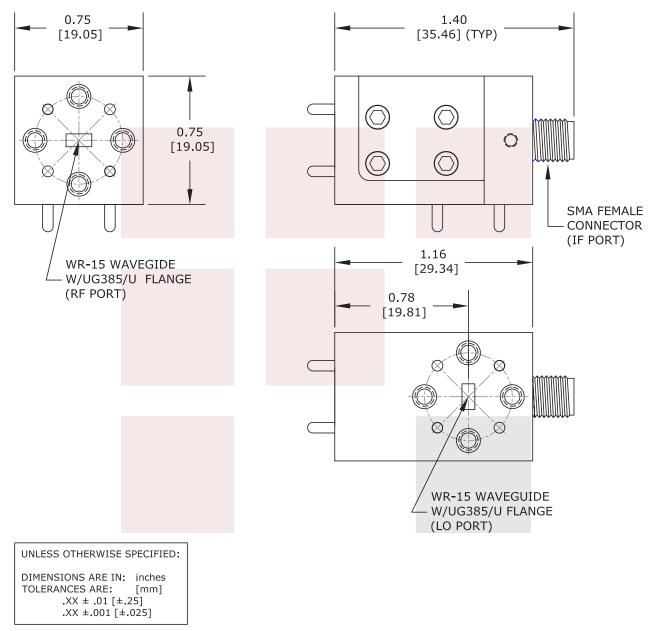
For additional information on this product, please click the following link: WR-15 Waveguide Up Converter Mixer From 50 GHz to 75 GHz, With an IF Range From DC to 18 GHz And LO Power of +13 dBm, UG-385/U Flange FMMU1002

URL: https://www.fairviewmicrowave.com/wr-15-waveguide-mixer-up-converter-50-75-ghz-ug-385-u-fmmu1002-p.aspx









^{*} THESE DIMENSIONS AND TOLERANCES SUPERSEDE NOTE #1 ON TITLE BLOCK.

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