

WR-75 Highpass Waveguide Filter With a 13.5 GHz to 15 GHz Pass Band

The FMW75F002 is a WR-75 highpass filter with UG Cover Flanges. The pass band is 1000 MHz, or 13.5 to 15 GHz. Implementing a waveguide design, the filter has excellent rejection of 40 dB minimum at 9 GHz or about 4500 MHz from the band edge. It has a maximum insertion loss of 0.2 dB.

Electrical Specifications (Values at 25°C, sea level)

Description	Min	Typ	Max	Units
H-Passband Frequency Range	13.5	-	15	GHz
Insertion Loss			0.2	dB
High Passband VSWR			1.25:1	
Input Power			200	Watts
Peak Power			20	kWatts
L-band Rejection at 9 GHz	40			dB

Mechanical Specifications

Size

Length	3.31 in [84.07 mm]
Width	1.5 in [38.1 mm]
Height	1.5 in [38.1 mm]
Weight	0.16 lbs [72.57 g]

Flange 1

Waveguide Size	WR-75
Flange Material and Plating	Aluminum, Silver
Flange 1 Type	UG Cover

Flange 2

Waveguide Size	WR-75
Flange Material and Plating	Aluminum, Silver
Flange 2 Type	UG Cover

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

- Values at 25 °C, sea level



Configuration:

- Passband: High Pass
- Flange 1: WR-75
- Flange 2: WR-75

Features:

- Passband of 1500 MHz
- 13.5 GHz to 15 GHz Passband
- WR-75 UG Cover Flanges
- Min rejection 40 dB at 9 GHz
- Maximum Insertion Loss of 0.2 dB
- Max Power (CW) 200 Watts

Applications:

- Radar Systems
- Test and Measurement
- Satellite Communications
- Instrumentation
- Automotive Radar Systems

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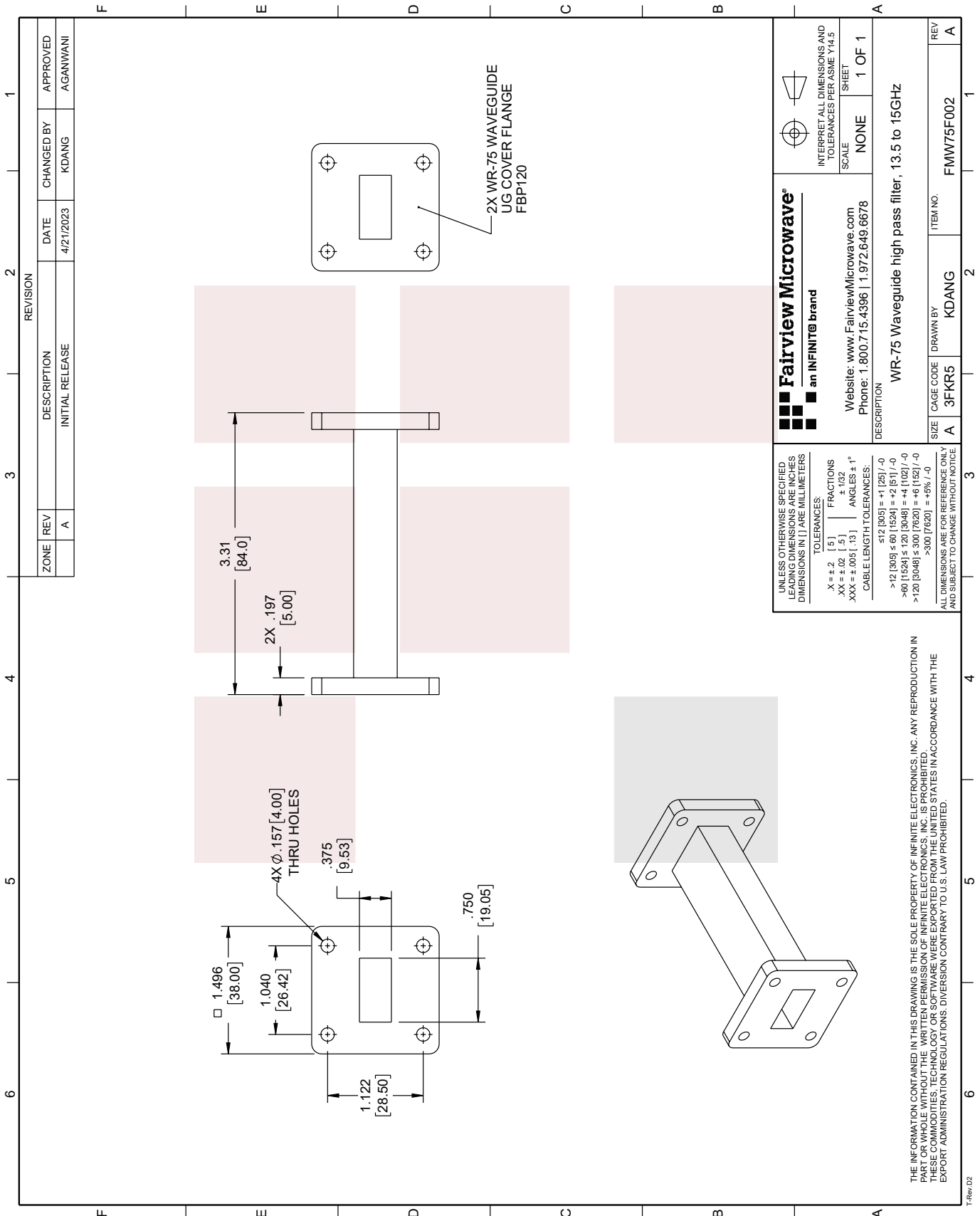
WR-75 Highpass Waveguide Filter With a 13.5 GHz to 15 GHz Pass Band from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-75 Highpass Waveguide Filter With a 13.5 GHz to 15 GHz Pass Band FMW75F002](#)

URL: <https://www.fairviewmicrowave.com/wr-75-highpass-waveguide-filter-ug-pass-band-fmw75f002-p.aspx>

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ZONE		REVISION		DESCRIPTION		DATE		CHANGED BY		APPROVED	
A		1		INITIAL RELEASE		4/21/2023		KDANG		AGANWANI	

<p>Fairview Microwave an INFINIT[®] brand</p> <p>Website: www.FairviewMicrowave.com Phone: 1.800.715.4396 1.972.649.6678</p>		<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SHEET</p> <p>SCALE: NONE</p> <p>SHEET: 1 OF 1</p>	
<p>DESCRIPTION: WR-75 Waveguide high pass filter, 13.5 to 15GHz</p>			
SIZE: A	CAGE CODE: 3FKR5	DRAWN BY: KDANG	ITEM NO.: FMW75F002
REV: A			REV: A

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

.X = ±.2 [5] FRACTIONS ±.132 ANGLES ± 1°
 .XX = ±.02 [.5] ANGLES ± 1°
 .XXX = ±.005 [.13] ANGLES ± 1°

CABLE LENGTH TOLERANCES:

≤12 [305] = +1 [25] / -0
 >12 [305] ≤ 60 [1524] = +2 [51] / -0
 >60 [1524] ≤ 120 [3048] = +4 [102] / -0
 >120 [3048] ≤ 300 [7620] = +6 [152] / -0
 >300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE

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