

# VSF-H Waveguide Filters Lab Brick® 5G Mitigation Filters

C-Band Satcom Waveguide Filters (3780 – 4000 MHz) | 1.1 dB Typical Insertion Loss

## Features/Benefits

- Industry Leading Insertion Loss
- Drop in Replacement for Existing C-Band Satcom Receivers
- Flat or Grooved Flange Options Available



As cellular network operators introduce 5G, LTE and WiMax solutions in the C-band, Satellite Communications (Satcom) equipment manufacturers require improved filter performance to avoid receiver saturation by unwanted signals.

Vaunix has introduced high performance 5G mitigation waveguide filters to reject the interference and optimize Satcom receiver performance.

The VSF-H series waveguide filters offer industry leading performance and availability.

## Specifications

<i>Band</i>	<i>Parameter</i>	<i>Performance</i>
<b>Electrical Properties</b>		
<b>Group H</b>		
	<b>Passband (MHz)</b>	3780 - 4200
	<b>Group Delay Variation</b>	1.45 nSec Max within $\pm 0.5$ MHz
	<b>Insertion Loss -Typical (dB)</b>	1.1
	<b>Insertion Loss - Max (dB)</b>	1.3
	<b>Rejection</b>	60 dB Min at 3760 MHz
	<b>Rejection</b>	25 dB Min at 4230 MHz
	<b>Return Loss</b>	19 dB Min
<b>Mechanical Properties</b>		
<b>Interface Flange</b>	UDR40 CPR-229 PDR40 CPR-229	
<b>Material</b>	Aluminum 6061	
<b>Finish</b>	Flanges: Chemical Conversion Waveguide: Silver Plate Exterior: Paint	
<b>Weight</b>	2.2 lbs. 998 g.	
<b>Environmental Conditions</b>		
<b>Operating Temperature</b>	-40°C to +50°C	

## Configuration Guide

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VSFR-X-XX-XX

Series – Group – Flange1 – Flange2

Group	
H	3780 – 4200 MHz

Flange1	
01	Flat and Thru Hole
02	Flat and Threaded Hole
03	Grooved and Thru Hole
04	Grooved and Threaded Hole

Flange2	
01	Flat and Thru Hole
02	Flat and Threaded Hole
03	Grooved and Thru Hole
04	Grooved and Threaded Hole

# Mechanical Outline

