

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

C-Band Satcom Waveguide Filters (3900 – 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-G series waveguide filters offer industry leading performance and availability.

Specifications

| <i>Band</i> | <i>Parameter</i> | <i>Performance</i> |
|---------------------------------|--|------------------------------------|
| Electrical Properties | | |
| Group G | | |
| | Passband (MHz) | 3900 - 4200 |
| | Group Delay Variation | 1.45 nSec Max within ± 0.5 MHz |
| | Insertion Loss -Typical (dB) | 1.1 |
| | Insertion Loss - Max (dB) | 1.3 |
| | Rejection | 50 dB Min at 3880 MHz |
| | Rejection | 25 dB Min at 4230 MHz |
| | Return Loss | 19 dB Min |
| Mechanical Properties | | |
| Interface Flange | UDR40 CPR-229 PDR40 CPR-229 | |
| Material | Aluminum 6061 | |
| Finish | Flanges: Chemical Conversion Waveguide: Silver Plate Exterior: Paint | |
| Weight | 2.2 lbs. 998 g. | |
| Environmental Conditions | | |
| Operating Temperature | -40°C to +50°C | |

Configuration Guide

VSFR-X-XX-XX

Series – Group – Flange1 – Flange2

| Group | |
|-------|-----------------|
| G | 3900 – 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

