

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

C-Band Satcom Waveguide Filters (3820 – 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
- Easily identifiable Red Color



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-I series waveguide filters offer industry leading performance and availability.

Specifications

<i>Band</i>	<i>Parameter</i>	<i>Performance</i>
Electrical Properties		
Group I - Red		
	Passband (MHz)	3820 - 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	70 dB Min below 3700 MHz
	Rejection	60 dB Min at 3800 MHz
	Rejection	50 dB Min at 3803 MHz
	Rejection	25 dB Min above 4230 MHz
	Return Loss	20 dB Min
Mechanical Properties		
Interface Flange	UDR40 CPR-229 PDR40 CPR-229	
Material	Aluminum 6061	
Finish	Flanges: Chemical Conversion Waveguide: Silver Plate Exterior: Red Paint	
Weight	2.2 lbs. 998 g.	
Environmental Conditions		
Operating Temperature	-40°C to +50°C	

Configuration Guide

VSFR-I-XX-XX

Series – Group – Flange1 – Flange2

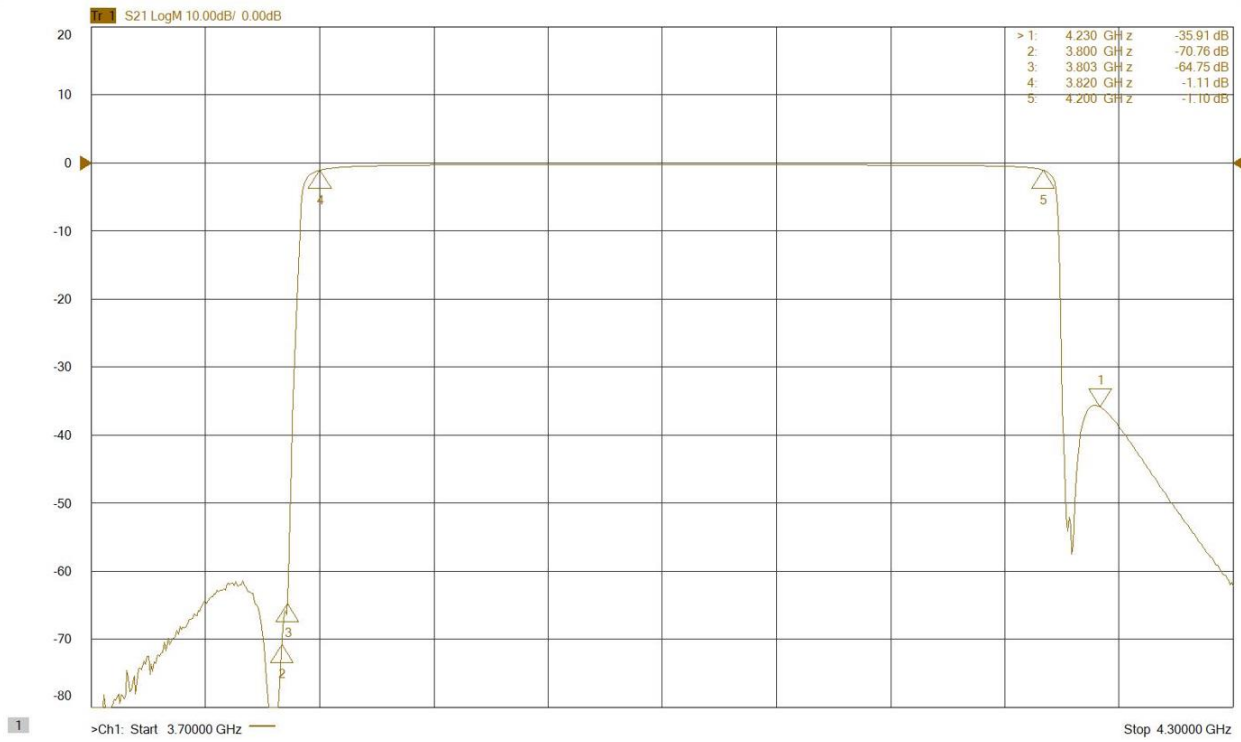
Group	
I	3820 – 4200 MHz

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

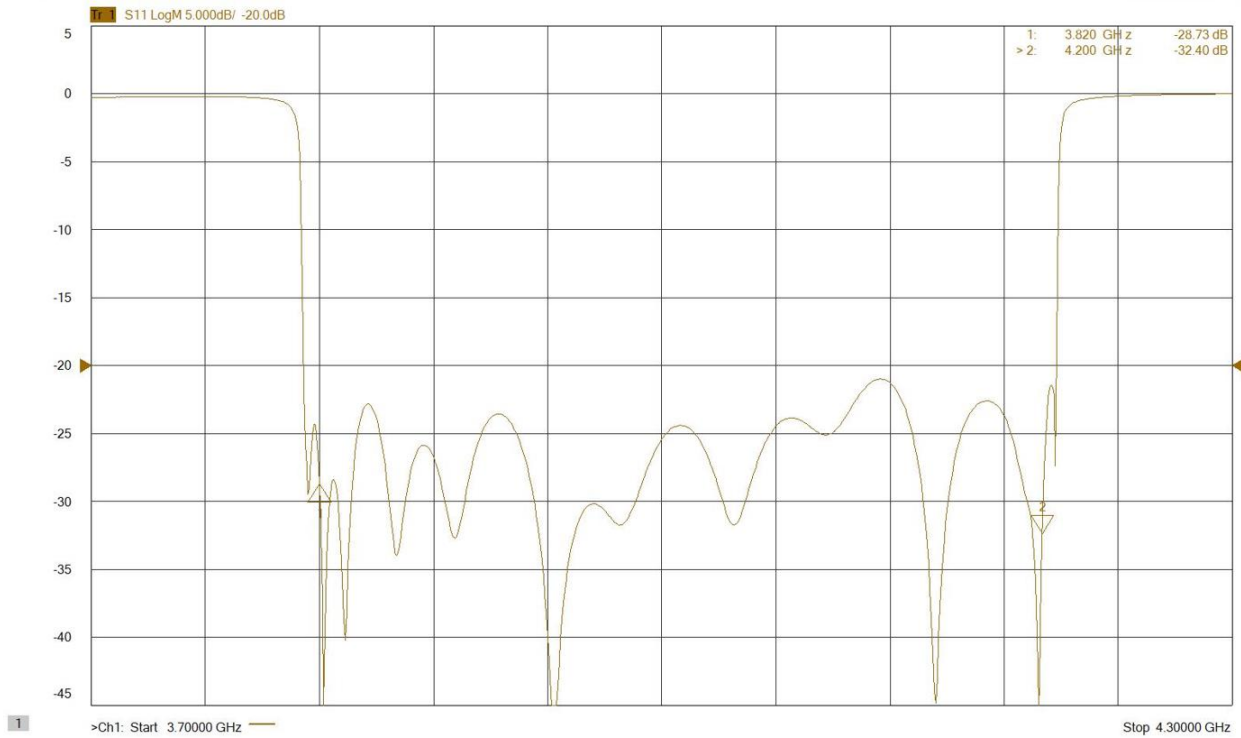
Flange2	
01	Flat and Thru Hole
02	Flat and Threaded Hole
03	Grooved and Thru Hole
04	Grooved and Threaded Hole

Performance

Group I – Insertion Loss and Rejection



Group I – Return Loss



Mechanical Outline

