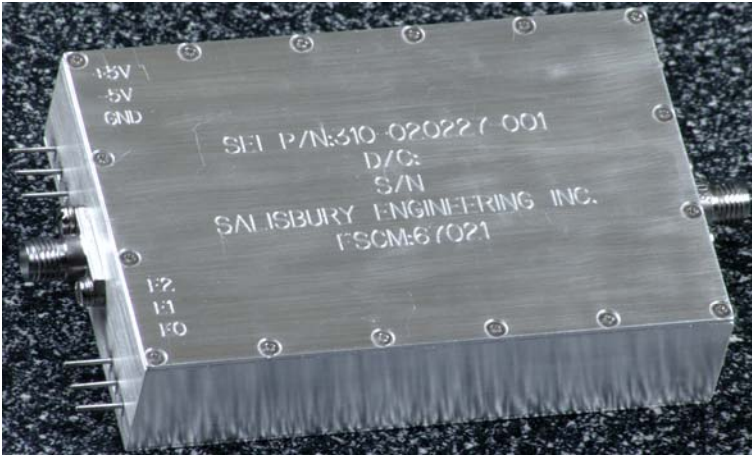


Switched Filter Bank

Wide Band 5 Channel Filter Bank (1000 - 3000 MHz)



Features

- **Small Physical Package (<5.2 in³)**
- **High Power Handling >+25dBm**
- **Wide Band Operation**
- **High Speed < 395 nsec**
- **Low Video Feedthru <1.2 mV**
- **Low Insertion Loss <3 dB**
- **50 dB Isolation**
- **Excellent IMD Suppression**

Description

Spectrum Microwave's 310-020227-001 filterbank provides five selectable RF filter channels over a wide range of operation in a relatively small package.

One compact unit covers a wide range of frequencies, typically 1 GHz to 3 GHz. Channels 1 through 5 are miniature lumped element bandpass filters with electrical specifications completely customizable by the end user. This relatively small filter bank provides a minimum of 30 dB of isolation in between non-selected passbands and 40 dB stop bands.

The filter bank is powered by -5V and +5V DC applied to external bias pins mounted on the end of the unit. A grounding terminal is also provided. Three control pins provide TTL selection of the desired operating band. The unit is bi-directional with SMA field removable connectors.

dimensions and connections

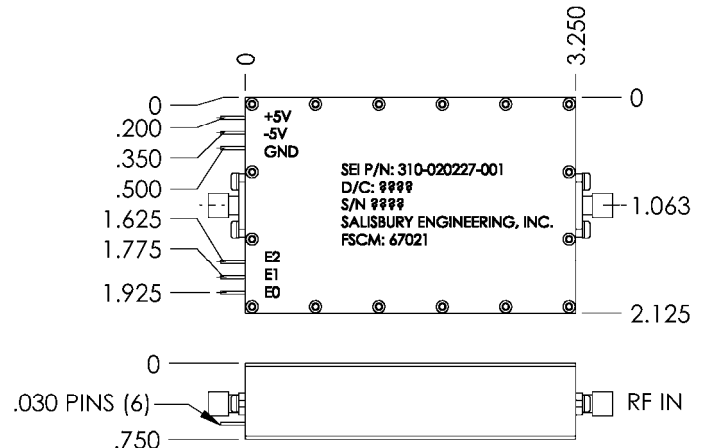
3.25" L x 2.125" W x 0.750" H excluding SMA connectors and control pins.

The chassis is machined aluminum with a silver plate finish. Control pins are .030" dia.

Typical Specifications

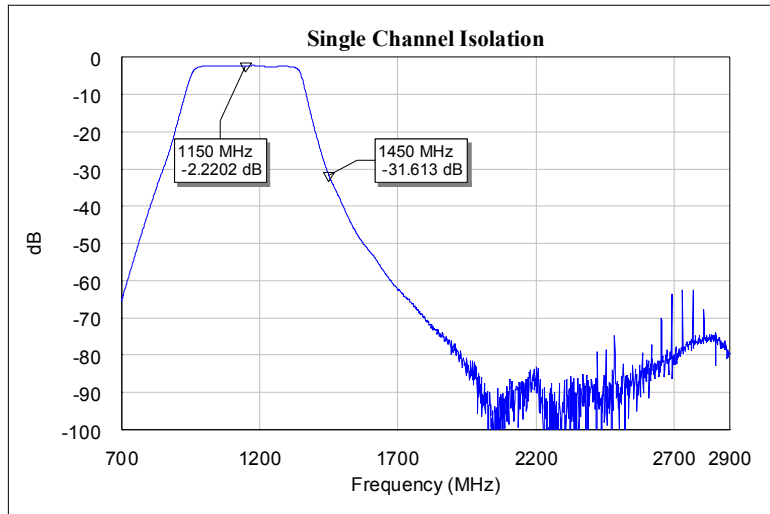
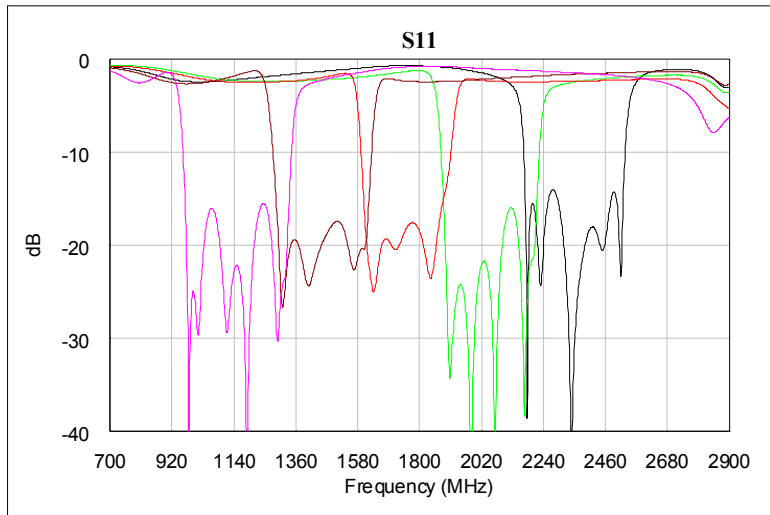
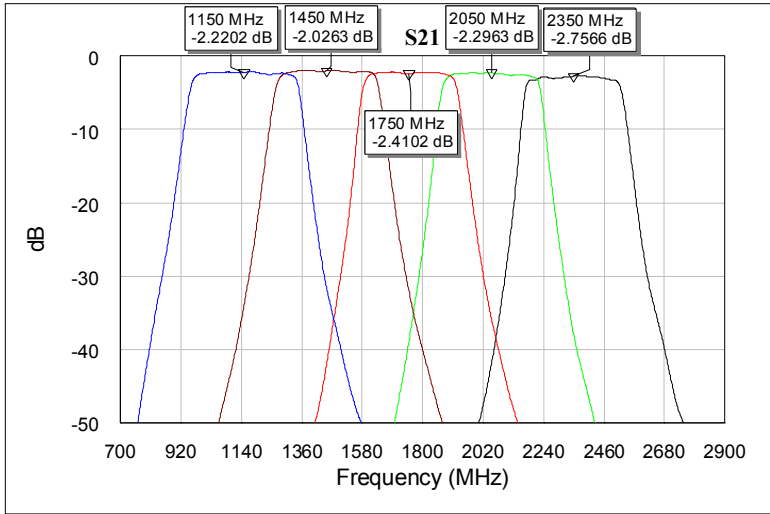
Frequency (GHz)	1.0 - 1.3 (CH1)
	1.3 - 1.6 (CH2)
	1.6 - 1.9 (CH3)
	1.9 - 2.2 (CH4)
	2.2 - 2.5 (CH5)
Typ. Switching Speed	392 nS on 174 nS off
Input 1 dB Compression	+25 dBm
Second Order Intercept	>+70 dBm
Third Order Intercept	>+45 dBm
VSWR	1.8:1
Insertion Loss	<3 dB
Switching Type	TTL
DC Power	5V @ <150 mA -5V @ <1.5 mA
Temp Range	-40°C to +85°C

All specifications above measured at 25°C

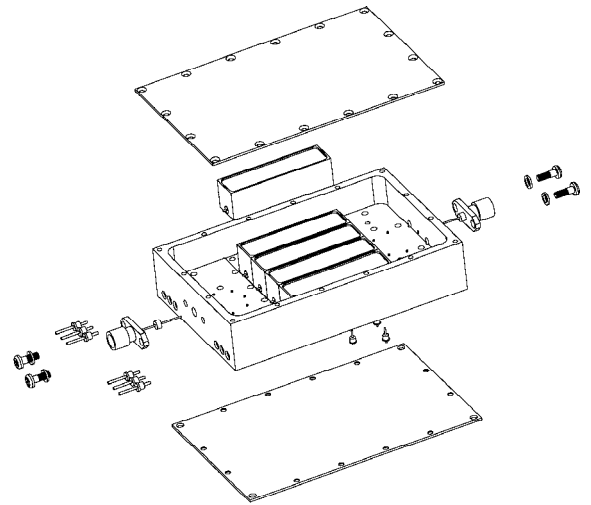


Switched Filter Bank

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Exploded View



S-Parameters for this model are available for download on our website.