

# Switched Filter Assemblies



RLC Electronics' Switched Filter Assemblies are custom designed combinations of RLC bandpass filters and solid state switches. Integral lowpass filters may be incorporated to eliminate spurious responses. As many as six filter channels may be

incorporated in each assembly. The ability to tune and match the assembly as a unit results in improved performance. Special amplitude and phase characteristics can be achieved.

## Specifications

SF-\*

Model Number	Number of Filters	Center* Frequency Range (MHz)	3 dB Bandwidth (% of fc)
SF	2 to 6	100 to 18000	0.2 to 70

**Isolation:** 60 dB typ.

**Power Rating:** 0.2 watts

**Impedance:** 50 ohms

**RF Connectors:** Type N, TNC, BNC, SMA Female

**Bias Connectors:** Solder Pins

**Control:** TTL Compatible

**DC Bias:** +5Vdc at 100 ma typ.

-10 to -15 Vdc at 50 ma typ.

**Switching Speed:** 500 nsec, typ

**Environment:** MIL-E-5400, Class 1A

## Filter Response

Each individual filter to be integrated may be selected from any type of bandpass filter manufactured by RLC. These types include interdigital, comb line, cavity, miniature and tubular.

A lowpass filter may be added to provide extended spurious free response. Attenuators may be integrated to equalize losses.

## Switch Response

The PIN diode switches used with each assembly are customized to provide minimum loss and maximum isolation over the frequency range of the assembly. All series, all shunt, or series-shunt diode configurations will be selected depending on the number of channels, frequency range, isolation and switching speed requirements.

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