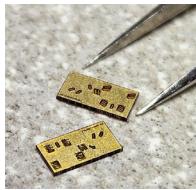


PRODUCT LINE CARD

RF Filters



Spectrum Control is a global leader in high-performance RF and microwave filter solutions, designing, building, and testing every RF filter to exact customer specifications. Our engineering team uses advanced tools such as Sonnet® EM Simulator and SolidWorks® to create innovative layouts that optimize both package size and electrical performance.



High Q SMT Filter Family

- Frequency coverage from 0.5 to 10 GHz
- Bandwidths from 10% to 70%
- High-Q designs for high selectivity and low insertion loss
- QFN packaging for compact, surface-mount integration
- Offered in lowpass, highpass, bandpass, notch, and diplexer configurations



Cavity Filters

- Frequency coverage from 400 MHz to 40 GHz
- High-Q cavity designs for superior selectivity and low loss
- Temperature-stable options available
- High power-handling capability
- Bandwidths from 0.1% to 60%
- Low-profile and drop-in designs available to 20 GHz
- Offered in bandpass, band-reject, diplexer, triplexer, and multiplexer configurations



Lumped Filters

- Frequency coverage from 300 kHz to 10 GHz
- Compact, ruggedized package options
- Flexible topologies and transfer functions
- Ideal for moderate to very wide bandwidths
- Available in connectorized or surface-mount formats
- Easily multiplexed for integrated RF solutions
- Temperature-stable designs available
- Offered in bandpass, lowpass, highpass, band-reject, diplexer, triplexer, and multiplexer configurations
- Designed to withstand demanding environmental conditions, including temperature, humidity, shock, vibration, and acceleration, when required

Suspended Substrate Filters



- Frequency coverage from 2 to 40 GHz
- Ideal for broadband multiplexing applications
- Bandwidths from 50% to 100%
- Robust construction well suited for high shock and vibration environments
- Offered in bandpass, lowpass, highpass, band-reject, diplexer, triplexer, and multiplexer configurations

Ceramic Filters



- Frequency coverage from 400 MHz to 6 GHz
- Bandwidths from 1% to 10%
- Low-cost, compact open-frame package options
- Sealed configurations available for high-reliability applications
- Offered in bandpass, diplexer, triplexer, and multiplexer configurations

Tubular Filters



- Frequency coverage from 30 MHz to 20 GHz
- Bandpass designs available to 6 GHz
- Bandwidths from 2% to 50%
- High power-handling capability up to 5,000 watts
- Offered in bandpass and lowpass configurations

Printed Filters



- Frequency coverage from 2 to 30 GHz
- Low-profile packages under 0.200 inches
- Offered in bandpass, lowpass, band-reject, and highpass configurations
- Available as standalone filters or IMA building blocks

Switch Filter Banks



- Frequency coverage from DC to 40 GHz
- Filter technologies include combine, interdigital, lumped, microstrip, suspended substrate, and ceramic resonator
- Switching technologies include PIN diode, GaAs FET, high-power, and high-speed architectures
- Integrated assemblies provide improved VSWR, lower insertion loss, and enhanced reliability