

PRODUCT LINE CARD

Healthcare

EMI Protection Products

Imaging equipment, implantable devices, portable dialysis, anesthesia equipment, patient care monitors, surgical tools and instrumentation, laboratory equipment, portable ventilators, IV infusion pumps, external defibrillators

- Design solutions to meet customer stringent requirements
- Custom design and value add solutions easily prototyped and produced
- Vertically integrated company producing the USA-made ceramic capacitors
- Compliance testing (EMC and environmental)



Board Mount EMI Filters

- Delivers a range of high-performance filtering options with minimal PCB footprint
- Provide reduced component count on board with less assembly cost
- Square mechanical geometry of the surface mount filters enhances soldering to a PCB
- Multi-line option provides filtered signal lines between system modules



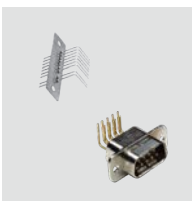
Panel Mount EMI Filters

- Largest selection of mechanical configurations for versatility and ease of design
- Value-add options lowering cost of acquisition and assembly, reduction of production operations and lead times
- Various terminations options to meet unique design challenges
- Wide range of circuit configurations to solve EMI and common mode noise issues within one package



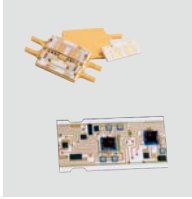
Chassis Mount EMI Filters

- High performance, high reliability filters that accommodate non-magnetic requirements
- Low leakage current with effective conducted filtering
- Meet EN 550011, EN 55022, and IEC/EN60601-1-2 requirements
- Configurable, catalog products available for where SWaP-C is a critical factor



Interconnects

- Many connection options for managing EMI at the signal and power I/O
- Large range of capacitance, pin to pin ratio range provides power and signal filtering in one package
- Selectively loaded designs, insulated and ground line options
- Predictable line to line isolation for segregated line IL performance



Hybrid MCMs & Microelectronics

- Custom MCM solutions ensure the reliability and maintained electronic performance
- Dependable thin film chip resistors with many customizable options where heat dispersion is paramount
- High performance products using state-of-the-art manufacturing processes
- *Medical tooling & instrumentation, surgical drill motor controllers, blood electrolyte sensors, blood analyzer control hybrid assemblies, imaging equipment*



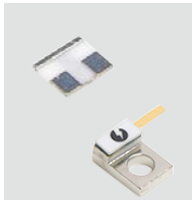
High Frequency & Low Noise RF Amplifiers

- Standard and custom designed high reliability products to address challenging requirements
- Ideal for applications that require the absolute lowest amount of noise
- User-configurable designs that reach increasing levels of complexity, power and performance
- *Medical wireless transceivers, MRI, total body scanning systems*



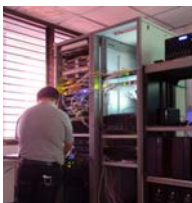
SAW Products

- SAW filters from 20 MHz up to 2600 MHz
- Ultra-low phase noise Voltage Controlled SAW Oscillators (VCSOs) offer high performance in frequencies up to 20 GHz
- SAW delay lines provide maximum performance from up to 2000 MHz in lightweight packaging
- *Pacemaker communications systems, wearable products for stress & weight management*



Powerfilm™ Surface Mount Resistives

- Thin-film and thick-film technology available in chip, leaded, or flange-mount packages
- Provide reduced signal level, improved impedance match and variable-level control
- Optimized for high-power signal conditioning, leveling, gain optimization and matching network challenges
- *RF power and plasma generation, imaging equipment*



Power Distribution

- Common control across AC/DC PDU's and RF/Microwave Systems
- Input and output monitoring / protection / EMI filtering
- Ruggedized design, high temperature / low smoke wiring
- *Servers & data centers, equipment management systems.*

Spectrum Control has a rich heritage in providing a vast portfolio of standard, configurable, and custom, application-specific solutions for the medical marketplace. Our focus on miniaturization and achieving higher packing density in circuit design has allowed us to meet the needs of our customers where component size is a premium and the highest levels of integration are desired.

In addition to standard, off-the-shelf components, and configurable part numbers, Spectrum Control can provide custom-sized options to fit your unique packaging specifications. Our products can also be hermetically and resin-sealed to meet the stringent environmental and high-reliability requirements of the medical marketplace.