

PRODUCT LINE CARD

# EMI Filter Interconnects

Spectrum Control has been a leader in providing application specific EMI filtered connector solutions since its founding in 1968. We offer the industry's most extensive line of interconnects designed for high reliability or demanding environmental applications such as commercial aviation and avionics, highway and agricultural vehicles, high reliability power supplies, as well as all airborne, ship or ground-based military applications.

Spectrum Control's filtered interconnect offerings are vertically integrated. We build components, including Ceramic Capacitors, in-house, providing our customers with high-quality parts, with the industry's shortest lead times.



## High Performance D-Sub (Series 700)

- Available in 9, 15, 25, 37, and 50 shell sizes
- Right angle and straight PCB for both pin and socket contact, or as an adapter
- Selectively specify and filter each contact position
- Feedthrough capacitive and Pi type filtering in a full range of capacitance values up to 5000 pF
- AC and lightning withstand designs for transient environments (up to DO160 Level IV)
- Connectors designed to MIL-DTL-24308 and fully RoHS compliant versions available



## High Density D-Sub (Series 600)

- High performance with increased circuit densities within smaller package
- Capacitance values up to 4000 pF
- Selectively specify and filter each contact position
- Available in feedthrough capacitive configurations
- Connectors designed to MIL-DTL-24308 and fully RoHS compliant versions available



## 5G D-Sub

- Multi-pole circuit utilizing materials specifically designed for 5G cellular bands
- All electrical connections soldered resulting in low ESR/ESL at frequencies up to 6 GHz and beyond
- 25-pin adapter geometry for test enclosures that require fast and easy 'plug and play'
- One-piece die-cast housing and integrated ground clips for more effective high-frequency shielding and shell to shell continuity



### Circular Connector

- Soldered construction for better high-frequency performance over mechanical designs
- Stainless steel, aluminum, composite shells for environmental and weight sensitive applications
- Olive-Drab Cadmium, nickel, black nickel zinc plating for military and RoHS environments
- AC and lightning withstand designs for transient environments (up to DO160 Level IV)



### Power Connector

- Integrated common mode and differential mode filtering in a circular connector
- Replace traditional larger EMI box filters (power entry filter) with similar performance
- Mates to a standard Mil-DTL-38999 connector insert arrangement 21-11
- Space-saving and reduced installation cost for the system



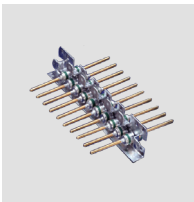
### Rapid Mate Connector

- Ease and reliability of hot shoe style mating with the added benefit of integral EMI filtering
- Rugged package designed to withstand harsh environments
- Provide positive, low mating force to ensure a rapid and reliable connection while resisting sand, dust, and water



### Bolt-in Filter Plate

- Eliminates the need to assemble filters into a bulkhead
- Excellent filtering from 5 MHz to 1 GHz
- Total cost savings vs. customer installed discrete filter elements
- Ideal for isolation of electronic compartments to suppress EMI



### Easy Mate Filter Plate

- Reduces installation time and overall cost
- Eliminates mounting hardware and prep work
- Improves overall quality and reliability
- Multiple dimpled finger ground contacts provide excellent long term EMI filtering from 5 MHz to 18 GHz
- Outperforms surface mount devices



### EMI Filter Interconnects Conformed to the Requirements of the Following Military Specifications:

- MIL-DTL-38999
- MIL-DTL-55116
- MIL-DTL-83723
- MIL-DTL-24308
- MIL-DTL-26482
- MIL-DTL-5015

Spectrum Control's customers benefit from unparalleled engineering and industry expertise. We provide complete standard and custom solutions in a timely manner. Our in-house machining, state-of-the-art engineering, and technology integration provide for rapid turn-around from prototype to production.