

SUCCESS STORY

Power Filters for Degaussing Systems on Aircraft Carriers

How Spectrum Control's EMI power filters are minimizing magnetic threats on military watercraft

While at sea, degaussing systems play a critical role in reducing or eliminating a magnetic field on military sea vessel systems. Spectrum Control recently supplied EMI power filters integrated into an aircraft carrier's power and control systems to reduce the magnetic signature.

Why Spectrum Control Filters

Spectrum Control has emerged as the leading provider of custom application-specific EMI power filter solutions by designing and manufacturing products that suppress or eliminate EMI. Our rugged modeling capability (structural, thermal, and electrical) and vertically integrated designs deliver custom, high-reliability filters with shorter lead times.

Reducing the magnetic signature with degaussing systems provides a greatly reduced target for underwater mines.

Integral to finding a solution to an EMC problem is the ability to test for compliance. Spectrum Control conducts a wide range of EMC and environmental tests to help identify potential problems and recommend design solutions. Our extensive in-house test capabilities allow for faster turnaround of your complete design solution, and with superior results.



Unique mechanical packages address size and space restraints.



True: Degaussing systems installed aboard aircraft carriers reduce the ship's effect on Earth's magnetic field.

Custom Military Power Filter Solutions

Spectrum Control has the experience and technical expertise to address virtually any military power EMI concern. From military aviation systems including countermeasures, fire control, and communication systems, Spectrum Control is uniquely able to design the ideal EMI Filter to eliminate unwanted interference from both exiting the systems (emissions) or entering the systems (susceptibility).

EMI power filters are available as a single power filter or multiple, if needed, and available as part of a fully integrated assembly. Select features include:

- Meets MIL-PRF-15733, MIL-STD-461, MIL-STD-1399, MIL-STD-704, and MIL-STD-1275 requirements
- Standard designs up to 400 Amps, with higher limits available for custom designs
- Excellent insertion loss characteristics up to 1GHz