Electro-magnetic interference filters
Oxley is a world leader in the design and development of high quality EMC filters for Defence and Aerospace markets. Established since 1942, we are renowned for our industry expertise, in-house capabilities and an ability to produce a superior range of customised and off the shelf solutions which solve our customers problems and satisfies the needs of the end-user.

With a total capability in EMC filters our facilities include design, ceramic production, machine, assembly and test facilities. This enables to manage every customer project in-house from start to finish.

Our high specification products are lightweight, reliable and cost effective. Proven in service across the world Oxley EMC filters and are designed to withstand the life of the application.

**single line filters**

Oxley single line EMI filters are available in a comprehensive range of styles and circuit configurations. The standard range covers threaded chassis, solder mount as well as pcb and push-fit filters with C, CL, Pi, T, 2Pi and 2T circuit options. Most filtering requirements can be covered from standard products. Where a specific filter requirement is not covered by our standard product range, custom filter solutions are available.

**multi-line filters**

Oxley offer a variety of custom multi-line filter solutions such as tubular, multi-layer discoidal and capacitive planar arrays. We offer cost effective solutions to meet demanding performance requirements. Each line can be specified individually for a range of performances across the array.

**filter array assemblies**

The use of filter arrays in many applications offers reduced assembly costs; reduced risk of filter damage and removes the possibility of wiring errors during any subsequent assembly operations. Discrete panel assemblies can be made up from any combination of the full range of Oxley filters, into a rectangular, circular or customer specified panel shape.

**filtered connector modules**

Replacing a standard connector with an EMI filtered version is often the most cost effective and efficient way of integrating filters into high line density requirements. These can often be supplied as direct replacements for the existing circular, rectangular or hermetic connector.

In many cases SWP filters are required to withstand harsh environmental conditions with severe vibration and thermal stresses. Our experience gained through thousands of custom filter solutions and our extensive test facilities allow us to generate and verify the very demanding solutions required.

**transient voltage suppression (TVS)**

When there is a need for TVS, for example to meet the requirements of RTCA DO 160 and other specifications, we are able to provide solutions to cover a range of transients and power handling requirements. These elements can be integrated into both single and multi-line filters providing a high density integrated package.

Statistical process control (SPC) techniques are applied throughout the manufacturing process in order to control parameters during production. All multi-line filters undergo 100% electrical testing for capacitance, dissipation, dielectric withstand voltage and insulation resistance before release.

Choosing Oxley EMI suppression components ensures a high quality and cost effective solution.