

EMC ENGINEERING SERVICES AND CUSTOM PRODUCT DESIGN



In addition to offering one of the world's most comprehensive ranges of standard EMC filters, line-conditioning products, RFI suppression chokes and pulse transformers, Schaffner offers the full complement of engineering services and custom product design to support equipment manufacturers and users.

WHY USE A CUSTOM PRODUCT?

Schaffner's standard products satisfy an extremely diverse range of requirements. However, invariably there will be occasions when application-specific products offer a better technical and economical solution. Some of the key reasons for choosing custom products include:

- Meeting special mechanical layout, size, installation or connection requirements
- Ensuring conformance with overall application specifications
- Satisfying specific filtration requirements by fine-tuning parameters
- Optimizing cost/performance to exactly match the application

The decision to use a custom product should always be backed by a full technical and economic analysis.

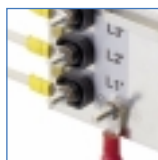
BALANCING THE EQUATION

Electronics equipment manufacturers often view the use of custom filters with some caution. A common concern is that they will somehow lose control of the costs or the process, and possibly risk delaying the introduction of a new product to market, or end up using a poorly designed filter.

SELECTING THE BEST SUPPLIER

All these issues can be satisfactorily resolved from the beginning by careful choice of supplier. A prudent first step would be to check the company's credentials.

It is vital that the filter supplier is willing to work with you as a partner – preferably in the language of your choice – and has the skills, willingness, applications-awareness and necessary resources to ensure timely project completion.



SECURING LONG-TERM SUPPORT

The ideal supplier will have the capability of simulating designs to help speed development, together with comprehensive test and measurement facilities to verify the performance of the filter and its overall effect upon the product that incorporates it.

The supplier must also be able to provide high-quality prototypes as quickly as possible and maintain this quality when the filter goes into volume production.

THE IDEAL PARTNER

Schaffner is well-positioned to help on all these fronts. The company has over 35 years experience in producing high quality EMC components for the world market. Schaffner has the most comprehensive portfolio of power line filters and suppression products in the world. It produces custom AC and DC power line filters, line-conditioning products, chokes and pulse transformers for an extremely diverse range of industrial, telecommunication, power supply, medical, office, defence, aerospace and transportation applications.

BENCHMARKING THE EXPERIENCE

Schaffner's products and experience encompass everything from miniature 100mA filters weighing less than 3g to high-current 3500A industrial systems that tip the balance at well above 100kg. There is no application too large or too small for consideration.

A UNIQUE SOURCE OF HELP AND SUPPORT

Schaffner's wide-ranging expertise in EMC issues enables it to provide the most cost-effective products. Our ability to recognize EMC problems and accurately identify their origins allows us to propose solutions very fast. [Our overall intention is one of long-term partnership](#) – we want to build the best solution for you, to ensure that your own goals are met.

WORLDWIDE PRESENCE

Schaffner is renowned for the quality and responsiveness of its custom product services. The company has custom filter design and prototyping facilities at seven strategic locations world-wide. At each location, experts are available to provide help and guidance with every aspect of custom products – from initial costing and technical analysis, through design and prototype building, to test and evaluation.



LOCAL EXPERTISE

Extensive knowledge of the EMC regulations that apply in each country enables our engineers to provide support at every stage of the process. Custom products can be developed directly from customers mechanical and electrical specifications, or from investigation of the end-equipment and the compliance regulations of its intended market.

TOTAL CAPABILITIES

Schaffner's custom products are subjected to the same rigorous performance checks as standard, high-volume products. The custom design facilities are equipped with:

- Powerful simulator workstations and leading-edge test and measurement instrumentation for full evaluation and quantification of filter performance.
- High voltage and high current sources to verify isolation voltage and current-carrying capacity up to 6kV and 600A.
- Broad-spectrum signal generators and power meters for insertion loss measurements to above 3 GHz.
- Special high-accuracy measurement instruments to certify that the filter's temperature rise is in accordance with international safety standards such as UL, CSA and EN.

A CLEAR PATH TO SUCCESS

Schaffner is uniquely able to help customers move efficiently and easily from the prototype phase to volume production. Each custom design facility maintains close links with Schaffner's ISO 9001:2000 -approved manufacturing plants in Thailand, Hungary and Switzerland; customers can consequently benefit from both Far East manufacture for very high-volume applications and European manufacture for small- to medium-volume applications.



Whichever route you choose, our ultimate goal is the same as yours – the efficient production and delivery of cost-effective high quality products, to help ensure that your products comply with all appropriate EMC regulations, and help increase the reliability and functional security of your equipment.

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It's products are designed and manufac-
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