



Product Focus

EMP filters for mobile and fixed military shelters

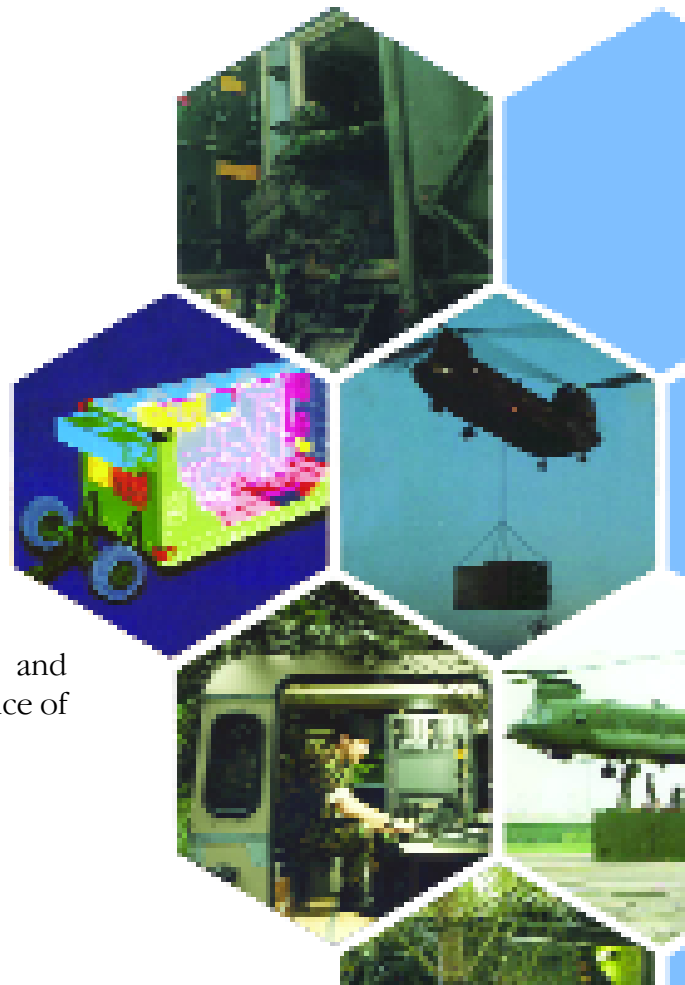
MPE are a leading European design authority and solution provider for LEMP/NEMP/TEMPEST line protection for C4I Mobile and Deployable, tactical shelters.

Military shelter design issues

- Maintain shelter integrity at all electrical access points
- Protect against NEMP/LEMP/HAEMP threats
- Achieve Tempest requirements
- Provide maximum protection in the minimum of space
- Minimal filter heat dissipation
- Reduce filter leakage currents
- Reduce filter maintenance requirements
- Optimal cost/protection criteria
- Maintainable & replaceable surge protectors
- Low acoustic signature

Solutions

- MPE custom design capabilities
- Innovative design solutions
- Option of built in connectors to increase functionality
- MPE offer confidence as a supplier who can design and manufacture key components and have extensive experience of your application



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Background, experience & capabilities

MPE's reputation as one of Europe's leading filter specialists is based on over 80 years of experience in the design, development and production of high performance RFI/EMC/NEMP/Tempest filters. Our commitment to a policy of continuous product development and innovation has resulted in one of the most comprehensive ranges of filter products available from a single manufacturer. All our manufacturing is done on site and we are approved to BS EN ISO 9001:2000. Our unrivalled capability and experience enables us to design and build filters to satisfy the exacting requirements of Military customers and we have extensive experience of Mobile and Deployable Shelter applications. Within our numerous proprietary designs, many have been: N.A.T.O. listed; Fighting Vehicle (FV) registered; or adopted as Defence Standards.

Standard products manufactured by MPE range from power filters with full spectrum performance up-to 2400 Amps through to telephone/data and control filters in multi-line packages. It should be noted that many of the filter ranges available offer 100dB performance from 10kHz. to well above 10GHz. Non-standard requirements can be fulfilled by a custom designed filter and members of our design team are available to offer technical support. We draw on a database of over 20,000 custom designs to reduce design time and extensive use is made of our own capacitor and filter design software. Our development test laboratory is well equipped with specialist facilities and is capable of carrying out a variety of special tests including high energy EMP pulse injection testing.



Mini case Study Cogent's, Cormorant project

It has been accepted for many years within military strategic thinking; both in NATO and beyond, that deployable war fighting assets have to have rapid response capabilities and flexibility. This requires not only Command, Control, Communication and Intelligence (C4I) battlefield management systems to be air portable but also to have proven and sustainable NEMP/LEMP/Tempest protection.

In the past few years MPE has successfully won a number of major contracts to supply NEMP/LEMP/Tempest protection to (C4I) tactical shelters. The filter specification both in electrical performance and mechanical system integration demanded innovative solutions. MPE designed and manufactured more than thirty new designs to successfully satisfy the stringent project requirements

Although MPE has an extensive range of catalogued products, many of which can form an excellent basis for addressing the above design issues, we suggest you contact MPE with details of your project for specific technical advice.

