

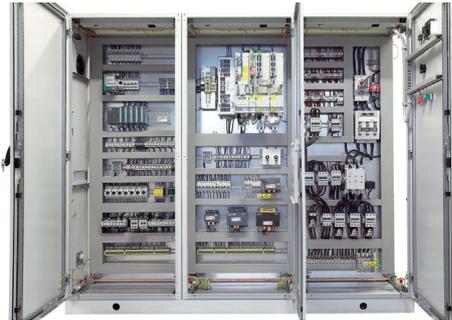


MPE
Quality, Reliability, Performance

Company Bulletin

for EMC, EMP & TEMPEST Protection

Issue 5



Compact EMI filter solution for high-performance applications

The MPE CleanPower range of EMI filters have been designed to provide the most practical and cost-effective solution where suppression is required to very high frequencies. Their impressive insertion loss performance is 100dB from 100kHz up to 1GHz.

These powerline filters are bidirectional, having been designed both to minimise the leakage of equipment-generated EMI into the surrounding environment and to protect the integrity of the installation against invasive EMI. The terminal compartments of the filter are fully gasketed and sealed against EMI and are designed to allow the filter to be mounted either internally or externally to the equipment boundary.

High reliability and safety characteristics are inherent in the CleanPower range. The filters utilise MPE's proprietary self-healing metallised plastic film feedthrough capacitors and come in a corrosion-resistant stainless steel enclosure for either bulkhead or chassis mounting.

The small size, light weight and low heat dissipation of CleanPower filters make them ideal for integrating into electrical power cabinets and equipment, shielded rooms and computer installations.

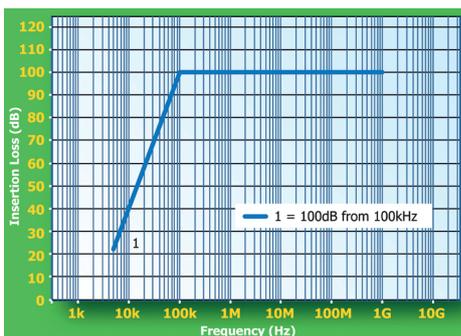


For such applications many equipment manufacturers have in the past purchased off-the-shelf, lower performance, commercial filters and external two-terminal capacitors to try to solve their EMI compliance problems, but have found that these products offer little or no suppression performance at frequencies above a few MHz. This has resulted in the need to add feedthrough capacitors to provide high-frequency suppression performance, and include extra mounting and screening to suit.

In contrast MPE CleanPower filters give a complete solution within a single package. With their enclosed terminals they maximise the safety of personnel, are easy to install and require no extra ventilation or cooling.

A 250V AC, 50 Hz, high-performance, two-line CleanPower filter featuring a 16A line current rating at 50°C

For further information on the MPE CleanPower filter range – single-phase and three-phase at current ratings of 16A, 32A and 63A – you can download the current page from the MPE website www.mpe.co.uk/products/clean-power-filters/



CleanPower range of EMI filters – insertion loss performance