



MPE
Quality, Reliability, Performance

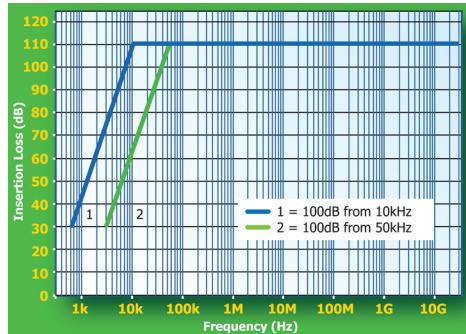
Company Bulletin

for EMC, EMP, HEMP & TEMPEST Protection

Issue 18



MPE power line filters



Insertion loss graph for standard performance installation filter



Typical application for MPE power line filters in automotive test chamber at JIAT in South Korea



Thermal imaging is used for checking an installed power line filter

Wider range of power line filters to meet demand

In direct response to the types of enquiries and orders it is now receiving from British and world markets, MPE has further expanded its well-established, best-selling standard performance EMC power line filter range with the addition of three new filter variants. Each of these new filters has been developed with the objective of reducing installer and therefore end-user cost.

MPE's standard performance EMC power line filters are the most popular and widely installed of any of MPE's filter ranges. They have been in service for many years in a broad spectrum of applications around the globe, such as datacentres, industrial power equipment, screened rooms, test chambers and tactical military shelters. Nevertheless recent enquiries and orders have regularly called for high-current filtering above 400A.

Previously such enquiries had been addressed by MPE using its very high current (VHC) EMC filter range. However, the filter variants within this range incorporate ultra-low leakage elements, which are often not actually needed for a given application and can unnecessarily increase the size, weight and cost of the filter.

MPE has therefore developed and introduced both 800A and 1200A filter variants into its standard performance EMC power line filter range.

Incorporating the same field-proven, highest reliability components as used for its existing range of EMC filters, these new three-phase and neutral filters boast 100dB of insertion loss attenuation across the full frequency spectrum from 100kHz to 10GHz and beyond.

At the same time, the removal of any ultra-low leakage performance element makes both the 800A and 1200A variants far more cost-effective options – with a significantly lower cost than MPE's ultra-low leakage variants.

In addition to these high-current variants, MPE has further augmented its range with the introduction of 250A filters in single-line, three-phase and neutral designs. The 250A additions are to satisfy an increased demand for this specific current rating, which MPE would have previously addressed with its 400A filter variants.

Again, these 250A filter variants feature the same field-proven, high-reliability components as incorporated in its existing range and provide 100dB of insertion loss attenuation across the full frequency spectrum. But they also come at a significantly reduced cost in comparison to the 400A variants, where applications may only require filtering up to and including 250A.

To view MPE's range of standard performance EMC power line filters, click on the following link: www.mpe.co.uk/products/standard-performance-range-filters/ or, to download your personal copy of MPE's high-performance power line filter catalogue, go to: www.mpe.co.uk/downloads/power-line-emc-filters