



Company Bulletin

for EMC, EMP, HEMP & TEMPEST Protection

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A consignment of Mil-Std-188-125 MPE HEMP filters prior to shipment



Jaxon Engineering & Maintenance at Colorado Springs independently tested new HEMP filter designs, confirming their compliance with the latest standard Mil-Std-188-125-1A



From left to right, the testing team of MPE Design Engineer John Lindsay with Jim Youngman of Jaxon, at Jaxon's test facility in Colorado Springs

World's first certification for Mil-Std-1A filters

In Autumn 2022 MPE contracted experts Jaxon Engineering & Maintenance to conduct independent pulse current injection (PCI) testing of new MPE HEMP protection filters against the latest standard Mil-Std-188-125-1A published in July 2021. The testing was fulfilled at Jaxon's test facility in Colorado Springs.

Assisting throughout the period of testing was MPE Design Engineer John Lindsay, enabling a flexible approach to the testing program and maximising the use of the laboratory resource and time.

Utilising MPE's immense filter design experience and innovative laboratory techniques and following several months of research and development completed at MPE in Liverpool, a groundbreaking new range of HEMP filter designs was created. After the fabrication and assembly of pre-production filters, PCI testing in the USA took place at Jaxon in November 2022.

Over one week several novel and proprietary filter designs from MPE not previously released to market were tested. In that timespan designs were also optimised to reduce size, weight and cost to the absolute minimum.

This comprehensive, rigorous testing once again demonstrated MPE's continued commitment to supplying the broadest and most innovative range of compliant filters to the company's client base, so as to meet the increasingly exacting requirements of evolving defence applications.

With these new HEMP filter designs passing well within the limits defined by Mil-Std-188-125-1A as applicable, the test results represent a resounding success and further testament to MPE's rigorous design philosophy and manufacturing processes.

PCI certificates for the units tested have been published on MPE's website and can be found at www.mpe.co.uk/downloads/test-certificates.

MPE is the first manufacturer in the world to have published such independent test certificates that confirm compliance with Mil-Std-188-125-1A.

Following this testing, MPE's 1A compliant HEMP filters have already captured widespread attention and been adopted for new projects, with those filter orders due to be fulfilled in 2023.

MPE will complete testing of further novel HEMP filter designs at Jaxon in the USA during March 2023, when full ranges of 1A compliant filters will then be released to market.



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