



MPE
Quality, Reliability, Performance

Company Bulletin

for EMC, EMP, HEMP & TEMPEST Protection

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A Marshall ADG GEOINT shelter for the British Army as mounted onto a MOWAG Duro 6x6 all-terrain tactical military vehicle



High-performance EMP protection filter from MPE



Electronic testing of filter performance with oscilloscope at MPE

Custom filters for British Army's GEOINT shelters

Fulfilling a follow-on contract from prime contractor Lockheed Martin UK, the Marshall Aerospace and Defence Group (Marshall ADG) has delivered further shelters for the UK Ministry of Defence's new battlefield Geospatial Intelligence (GEOINT) system, which is designed to enhance the British Army's situational awareness during combat. As part of its complex shelter solution, Marshall ADG has once again utilised MPE's field-proven, ultra-high reliability, EMP protection filters.

This follow-on contract provides additional Field Deployable GEOINT (FDG) systems, including a Forward Map Distribution Point (FMDP), further Tactical Map Distribution Points (TMDP) and Tactical Information and Geospatial Intelligence Systems (TIGAS).

FDG delivers a datacentric, GEOINT management, discovery, dissemination and exploitation capability that addresses the deployable requirements of the UK's Joint Force Intelligence Group (JFIG), including the provision of mobile and manoeuvrable working environments at the tactical level.

Integral to each shelter solution are customised EMP filters designed and manufactured by MPE in Liverpool.

During the design stage MPE completed an interactive development and testing process alongside Marshall ADG, resulting in four custom filter solutions. The custom variants included 10A and 63A mains power filters for both the TMDP and TIGAS configurations, a seven-line CBRN filter and a five-line filter for use within the alarm system. These custom filters ensured the integrity of EMP protection for each type of GEOINT shelter.

Marshall ADG is responsible for the design, manufacture, fit-out and integrated logistics for the shelters housing the systems. The TIGAS units are mounted onto MOWAG Duro 6x6 all-terrain tactical military vehicles from General Dynamics European Land Systems (GDELS), whilst the other units are carried on the back of the MoD's support vehicle supplied by Rheinmetall MAN Military Vehicles GmbH (RMMV).

MPE has delivered quantities of all four of its custom EMP filter solutions in support of Marshall ADG's delivery phase, with over 150 filters being manufactured and supplied by MPE to date.

 **Marshall**