

# Electromagnetic Pulse-Protected Cabinets



## Assured Protection Cabinets

Protect your equipment from your adversaries with CACI's shielded cabinet. CACI's electromagnetic pulse-protected cabinets combines comprehensive high-altitude electromagnetic pulse (HEMP) shielding and penetration protection features that exceed the military's specification performance requirements for the protection of critical electronic equipment against the effects of HEMP. CACI experts designed, built, and tested the cabinets to the rigid pulsed current injection (PCI) and shielding effectiveness (SE) specifications of MIL-STD-188-125-1/2. The cabinets can be designed to accommodate customer-specified dimensions or to fit in standard footprints such as telecommunications cabinets. Seismic structural features can be added to the cabinets to meet Zone 4 stress requirements.

The outer shell is a continuously welded steel box, forming a Faraday cage. Air intake and exhaust openings are protected with CACI's CNC-milled, vibration- and corrosion-resistant WavePacks, which attenuate HEMP electromagnetic waves below a certain frequency via the waveguide below cutoff (WBC) principle.

Access to the cabinet's equipment inside is provided by CACI's radio frequency shielded doors, which have been tested over 100,000 openings and closings without degradations in their HEMP performance or function.

For signal and power, the key is to minimize conducted penetrations. CACI's cabinets contain only two conducted penetrations, both of which are for power feeding the cabinet. All other signals are brought into the cabinets via fiber optics.

To meet the TEMPEST SE and power filter insertion loss requirements of NSA 94-106, CACI reduces the diameter of the fiber optic waveguide tubes to .5 inches and installs filters that are specified and tested to the NSA 94-106 insertion loss requirements. Filters that will meet both HEMP and TEMPEST requirements are available.

For more information, contact:

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For more information about our solutions, products, and services, visit:

[www.caci.com](http://www.caci.com)

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## Features

- HEMP-survivable rack form factor enclosure for critical electronic equipment
- Double or single racks; 19- or 23-inch rack mount; front and/or rear doors
- Fully compliant with MIL-STD-188-125-1/2; TEMPEST VERSION to 10GHz also available
- A and B power bus compatible
- AC or DC power up to 10kW
- Conducted penetrations (only power) – filters reduce residuals to within MIL-STD-188-125-1 limits
- Automatic built-in test equipment provides real-time status of SE
- Production units currently being deployed to HEMP-hardened telecommunications networks
- Can be designed/built to customers specifications
- Both steel and aluminum versions available
- Can also be designed/built/tested to meet TEMPEST requirements
- Network Equipment Building System (NEBS) and Zone 4 compliant

## Benefits

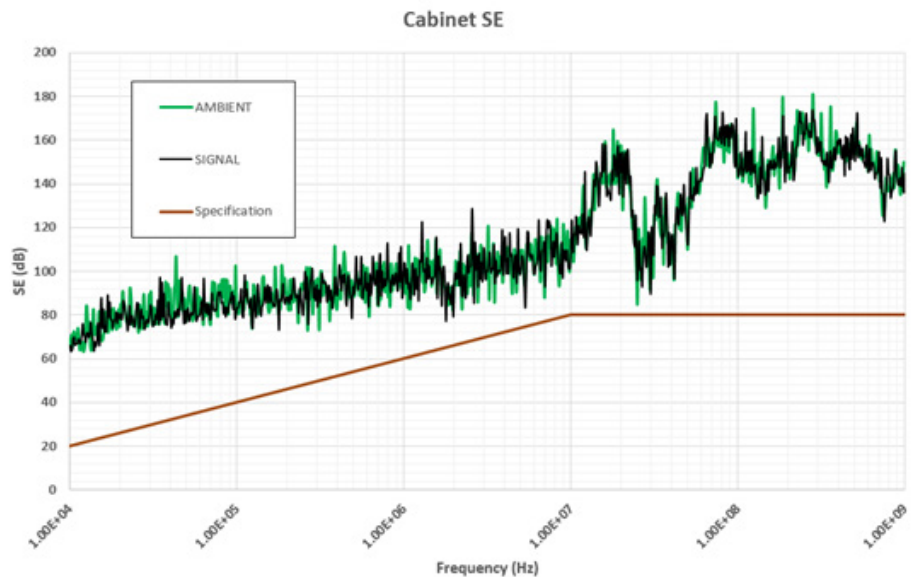
- EMP protection for vital electronic components
- Ability to custom design cabinet size to any form or fit
- Low maintenance with high reliability

This material consists of CACI International Inc general capabilities information that does not contain controlled technical data as defined within the International Traffic in Arms Regulations (ITAR), Part 120.10, or Export Administration Regulations (EAR), Part 734.7-10. (PRR ID699)

## HEMP Protection in a Cabinet

For applications where weight is a critical factor, CACI offers a fully aluminum version of these cabinets that exceeds all of the military's standard performance requirements at about one-third of the estimated cabinet's weight. To ensure cabinet HEMP performance, CACI conducts a full suite of acceptance tests on each cabinet during production and also will provide HEMP verification testing per the military standard of a customer's fully populated and operating cabinet.

Our cabinets come with detailed hardness maintenance instructions on how to maintain the cabinet's HEMP hardness over its deployment life. CACI's U.S.-based shielded cabinets are manufactured in New Mexico. The plant is fully equipped with the latest shaping, welding, and finishing equipment necessary to produce a quality final product.



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CACI's approximately 22,000 talented employees are vigilant in providing the unique expertise and distinctive technology that address our customers' greatest enterprise and mission challenges. Our culture of good character, innovation, and excellence drives our success and earns us recognition as a *Fortune* World's Most Admired Company. As a member of the Fortune 1000 Largest Companies, the Russell 1000 Index, and the S&P MidCap 400 Index, we consistently deliver strong shareholder value. Visit us at [www.caci.com](http://www.caci.com).

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