

Features:

- Ease of operation in a compact, portable format
- Fulfills demanding test requirements with shielding performance of 120 dB+
- High performance, 24-ounce copper shielding construction
- Compact size, with a wide range of available sizes
- Maximum performance that features a Double Electric Contact (DEC) door with toggle action over center draw latches
- Optional anechoic absorber lining for the interior surface
- Optional connector plate for standard RF bulkhead penetrations and connections



5240 Series

The ETS-Lindgren 5240 Series is a high-performance, portable shielded enclosure designed for fast, convenient EMI/RFI testing and verification. Built to the same reliable shielding standards as our full-size enclosures, the tabletop enclosure provides effective shielding in a compact, easy-to-use format.

The 5240 Series is available in four standard space-saving sizes, including 18" x 18," 24" x 24," 30" x 30," 36" x 36," as well as custom sizes to suit any test and repair environment. An economical 12" x 12" version is also available to meet limited-space or less demanding performance requirements.

On request, the 5240 Series is available in rack-mounted or in-line versions, and may be fully integrated into automated assembly systems.

Applications

Designed to meet a variety of demanding testing, QC/QA, and repair requirements calling for shielding performance through 120 dB, the 5240 Series is ideal for wireless, cellular, PCS, radio, cordless, and pager applications.

The 5240 Series may be used in any environment where the equipment under test needs high performance RF shielding, and can be isolated from the operator. Typical applications have included cell-site to cell-site testing, burst electronics applications, RF resistor testing, two-way radio testing, and susceptibility testing.

The in-line version is recommended for applications requiring testing or QC during electronic assembly, production, and manufacturing applications.

Construction

The standard 5240 Series is constructed of 24-ounce copper shielding applied to a 3/4" plywood core frame, and soldered at all seams. It includes a ground stud and ETS-Lindgren's miniature style Double Electric Contact (DEC) RF door, featuring over center draw latches. Like the enclosure, the DEI door provides 120 dB attenuation to ensure maximum shielding performance.

Performance

With its exceptional RF attenuation over a wide RF spectrum, the 5240 Series can be used wherever requirements call for precise RF measurements up to 120 dB.

Operation

In operation, the product to be tested is simply placed inside the enclosure, the door is closed, and the test procedure is conducted.

When using the in-line model, the product to be tested is placed on a pallet which is moved into the enclosure. An automated test sequence may be incorporated, using the customer's automation system. Once the in-line testing is complete, the doors open, the pallet is ejected, and the sequence is repeated with the next unit. All table top enclosures are shipped completely assembled, ready for immediate use.

Model Variations

The 5240 Series is available in four standard table-top formats as well as in rack mounted, in-line, limited-space and custom formats of virtually unlimited design.

It may be equipped with computer-controlled pneumatic RF doors, and integrated with the customer's automation system. The portability and small footprint allow the enclosure to be used in a permanent location or placed on a cart and moved to the area required. Whatever the requirement, ETS-Lindgren's experience with a variety of shielding applications allows the design and manufacture of a table top enclosure to suit unique needs.

Accessories

ETS-Lindgren offers an array of power line filters, signal filters, RF and sub-miniature D connectors, and waveguide feed-throughs for use with the Table Top Enclosure. All available power and signal line filters feature 100 dB or greater insertion loss.

Options

A few of the options for the 5240 Series include:

- 2 1/4" x 1/2" broadband flat RF foam absorber lining
- various sizes and configurations
- high performance door upgrade
- exhaust fan for air circulation and heat dissipation
- high performance ferrite tile lining
- waveguide feed-throughs
- fiber optic package
- connector plate allowing the use of standard RF bulkhead penetrations and connections; modifiable for future penetrations as necessary

Warranty

Warranties cover parts and labor for 1 year.



5281 Series

