

FERROSORB FS EMC ABSORBER FS-1500H FerroSorb™ EMC Absorber

ETS-Lindgren's FerroSorb™ FS-1500H High Performance Hybrid Ferrite Tile Polyurethane Dielectric Absorber is a numerically optimized hybrid absorber that combines high performance carbon-loaded foam absorber with precision-manufactured ferrite tile.



ETS-Lindgren's FerroSorb FS-1500H High Performance Hybrid Ferrite Tile Polyurethane Dielectric Absorber is a numerically optimized hybrid that combines high performance carbon-loaded foam absorber with precision-manufactured ferrite tile. Designed specifically for use in 10m EMC chambers, this ultra broadband composite achieves superior levels of absorption and power-handling capability in a space-saving profile which is significantly less than the depth of traditional foam-only products.

FS-1500H is specifically designed to be a cost-effective solution for EMC chamber applications that call for very high performance requirements.

Chambers designed with FerroSorb FS-1500H will exceed the +/- 4 dB normalized site attenuation requirements specified in ANSI C63.4 and CISPR 16-1-14. With an optimized chamber design, site attenuation performance of +/- 3 dB deviation from theoretical normalized site attenuation is achievable. This results in improved measurement accuracy which can translate into significant savings by reducing a product's EMI suppression costs. Other applications include IEC 61000-4-3 and MIL-STD 461E immunity testing.

Key Features

- **Ultra Broadband Frequency Range
30 MHz to 40 GHz**
- **200 V/m Power Handling Capability**
- **10 m High Performance Chamber
Applications**
- **Greater Measurement Accuracy
Reduces EMI Suppression Costs**
- **Non-hygroscopic Substrate**

Features

Non-hygroscopic Substrate

ETS-Lindgren absorbers use a fire-retardant chemical formula that is non-hygroscopic, thus the absorber is not affected by moisture. FS-1500H Absorber will maintain its mechanical and RF performance over the life of the product.

Ultra Broadband Frequency Range 30 MHz to 40 GHz

FerroSorb FS-1500H has a unique composite construction combining the best of ferrite tile technology with high performance anechoic absorber to achieve an ultra broadband operating frequency of 30 MHz to 40 GHz.

Numerically Optimized Design Achieves Superior Performance

Absorption/reflectivity performance of FS-1500H absorber is superior to dielectric material measuring up to twice its depth.

200 V/m Power Handling Capability

FS-1500H has excellent power handling capability for today's immunity standards testing, and can safely handle continuous exposure to fields up to 200 V/m.

Specifications

Electrical Specifications

Model	Frequency	Power Handling
FS-1500H	30 MHz - 40 GHz	200 V/m CW

Physical Specifications

Size: 23.6 in x 23.6 in (60.0 cm x 60.0 cm)

Nominal Height: 59.1 in (150.0 cm)

Nominal Weight Per Panel: 13.0 lb/ft² (5.9 kg/m²)

Product Charts
