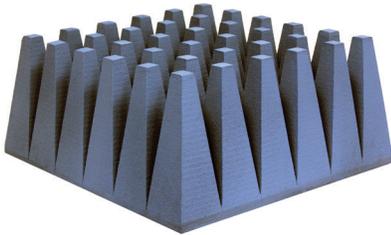


ABSORBER MODEL FS-300



MODEL FS-300

- 30 MHz to 40 GHz Frequency Range
- Small Profile
- For Use with Ferrite Tile Backing
- Up to 775 W/m² (0.5 W/in²) CW Power Handling
- Fire Retardant
- FlexSorb™ Available

ETS-Lindgren's FerroSorb™ FS-300 EMC Absorber is part of the FS Family of hybrid (ferrite tile and carbon loaded material) absorbers from ETS-Lindgren. The FAA-300 loaded foam portion is designed to match the impedance of ETS-Lindgren's FT-1500 Ferrite Tile panels. When combined, these two absorber technologies become the FS-300 absorber system.

Features

Frequency Range

FS-300 has a very broad band range of 30 MHz to 40 GHz, meeting the required range for MIL-STD 461 and CISPR 25 and providing enough absorption for use in the floor treatment for immunity measurements per IEC 61000-4-3.

Small Profile

Only 30 cm high (11.8 in), this absorber has very low profile yet it has excellent absorption for the entire range of frequencies. The absorber ships in standard 60 cm x 60 cm (23.6 in x 23.6 in) pieces with 36 truncated pyramids per piece.

TILE Backing

The FAA-300 material is designed to provide absorption at low frequencies provided that it is used with a ferrite tile backing as part of the FS-300 absorber system.

Power Handling

Like other ETS-Lindgren absorbers, the FS-300 can handle up to 775 W/m² (0.5 w/in²) CW power density (540 V/m) in RF and MW frequencies. For periods less than 10 minutes, the absorber can safely handle up to 2650 W/m² (1.7 W/in²) power density (1000 V/m).

Optional FlexSorb™ Treatment

ETS-Lindgren's optional FlexSorb covering is engineered to provide enhanced protection and durability for absorber installations in active test environments while preserving critical RF performance. Applied over absorber surfaces, FlexSorb helps protect against mechanical wear from foot traffic, airflow, dust accumulation, and incidental contact during routine testing and maintenance. The flexible, lightweight material conforms closely to absorber geometry, maintaining absorber shape and effectiveness without introducing meaningful measurement degradation.

FlexSorb has little to no impact on RF performance at frequencies below 18 GHz, with only minimal performance variation observed at higher frequencies. In addition to extending absorber service life, FlexSorb supports improved safety and cleanliness within EMC and wireless test chambers, making it well suited for high-use laboratories where long-term performance, reliability, and reduced maintenance are essential.

ABSORBER MODEL FS-300

Technical Specifications

Electrical

Frequency Minimum	30 MHz
Frequency Maximum	40 GHz
Power Handling (CW)	540.0 V/m
	775.0 W/m ²
	0.5 W/in ²
Power Handling (Maximum)	1000 V/m
	2650 W/m ²
	1.7 W/in ²

Physical

Length	60.0 cm (23.6 in)
Width	60.0 cm (23.6 in)
Height	30 cm (11.8 in)
Weight	2.8 kg (6.17 lb)