

## RF ABSORBERS Flat Laminate Absorber

ETS-Lindgren's Flat Laminate Absorber, a moderate performance broadband microwave absorber is a graded dielectric material that has been widely accepted in the microwave and antenna fields.



ETS-Lindgren's Flat Laminate Absorber, a moderate performance broadband microwave absorber is a graded dielectric material that has been widely accepted in the microwave and antenna fields. The absorber is fabricated using three layers of carbon impregnated foam. By using a front layer with a small loss tangent, a center layer with a moderate loss tangent, and a bottom layer with a higher loss tangent, an electrical taper is achieved that yields a material with an average reflection coefficient of -20 dB over a wide frequency range.

A 100 percent inspection of the FL series material is performed by measuring The reflection coefficient at the frequencies shown below. The reflection coefficient is guaranteed to be -20 dB (1 percent) or less at the test frequency.

ETS-Lindgren's FL is flexible and easily cut using a band saw or a knife with a serrated edge. Best performance is achieved when the absorber is mounted in intimate contact with a metal surface. The front surface of FL series absorber is painted a light blue color.

---

### Key Features

- Flexible and Easy to Cut
- Average Reflection Coefficient of -20 dB over a Wide Frequency Range

### Specifications

## Electrical Specifications

Frequency Range by Model

Model	Frequency (LB/FT <sup>2</sup> )	Test Frequency
FL-0750CL	3.5 GHz & above	6 GHz
FL-1125CL	2.4 GHz & above	3 GHz
FL-2250CL	940 MHz & above	1.7 GHz
FL-4500CL	455 MHz & above	800 MHz

## Physical Specifications

Dimensions by Model

Model	Thickness	Base Size	Weight
FL-0750CL	1.9 cm (0.75 in)	61 cm x 61 cm (24 in x 24 in)	0.1 kg (0.22 lb)
FL-1125CL	2.9 cm (1.14 in)	61 cm x 61 cm (24 in x 24 in)	0.2 kg (0.44 lb)
FL-2250CL	5.7 cm (2.24 in)	61 cm x 61 cm (24 in x 24 in)	0.4 kg (0.88 lb)
FL-4500CL	11.4 cm (4.49 in)	61 cm x 61 cm (24 in x 24 in)	0.9 kg (1.98 lb)

## Product Charts

Measured Reflections at  
Normal Incidence

