

ABSORBER MODEL FF FILTER FOAM ABSORBER



MODEL FF-36-PCL

- Non-Hygroscopic Substrate
- 2.0 W/in² Power Handling Capability
- Reflectivity Performance Testing
- Fire Retardant

ETS-Lindgren's FF Filter Foam/Vent Absorber is similar in appearance and geometry to conventional ETS-Lindgren pyramidal and wedge type materials, and is tested to the same rigid specifications. Normal incidence and wide-angle performance are similar to the conventional EHP series absorbers.

Filter Foam absorbers are designed using open cell/reticulated polyurethane foam substrates. The large pore size allows for easier airflow through the absorbers. They can be used over air vents. An added feature of the Filter Foam/Vent Absorber is that it handles more RF power because the open cell design allows for better heat release. The FF material can typically handle 2 W/in² (3.1 kW/m²) depending on the dimensions of the absorber, duration, and the RF Power wavelength without forced air cooling. With forced air cooling the material can handle 10 w/in² (15.5 kW/m²) or more continuously depending on the absorber size and the RF power wavelength.

Fire Standards

- NRL 8093 Tests 1, 2 and 3
- UL 94
- DIN 4102-B2

Technical Specifications

Electrical Specifications

Model	Frequency Minimum	Frequency Maximum	Power Handling
FF-3PCL	4 GHz	40 GHz	2.0 W/in ² (3.1 kW/m ²)
FF-5PCL	2 GHz	40 GHz	2.0 W/in ² (3.1 kW/m ²)
FF-8PCL	1 GHz	40 GHz	2.0 W/in ² (3.1 kW/m ²)
FF-12PCL	1 GHz	40 GHz	2.0 W/in ² (3.1 kW/m ²)
FF-18PCL	500 MHz	40 GHz	2.0 W/in ² (3.1 kW/m ²)
FF-24PCL	200 MHz	40 GHz	2.0 W/in ² (3.1 kW/m ²)
FF-36PCL	80 MHz	40 GHz	2.0 W/in ² (3.1 kW/m ²)

Max Reflections

Model	80 MHz	120 MHz	220 MHz	300 MHz	500 MHz	1-2 GHz	2-4 GHz	4-8 GHz	8-12GHz	12-18 GHz	18-40 GHz
FF-3PCL								-25 dB	-35 dB	-40 dB	-40 dB
FF-5PCL							-25 dB	-35 dB	-40 dB	-45 dB	-45 dB
FF-8PCL						-25 dB	-35 dB	-40 dB	-45 dB	-45 dB	-45 dB
FF-12PCL						-30 dB	-35 dB	-40 dB	-45 dB	-45 dB	-45 dB
FF-18PCL					-25 dB	-35 dB	-40 dB	-45 dB	-45 dB	-45 dB	-45 dB
FF-24PCL			-15 dB	-25 dB	-30 dB	-35 dB	-45 dB	-45 dB	-45 dB	-45 dB	-45 dB
FF-36PCL	-6 dB	-8 dB	-20 dB	-25 dB	-35 dB	-40 dB	-45 dB	-45 dB	-45 dB	-45 dB	-45 dB

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Physical Specifications	
Model	Overall Height
FF-3PCL	7.6 cm (2.99 in)
FF-5PCL	12.7 cm (5.00 in)
FF-8PCL	21.6 cm (8.50 in)
FF-12PCL	31.1 cm (12.24 in)
FF-18PCL	46.4 cm (18.27 in)
FF-24PCL	61 cm (24.02 in)
FF-26PCL	66 cm (25.98 in)
FF-36PCL	91.4 cm (35.98 in)