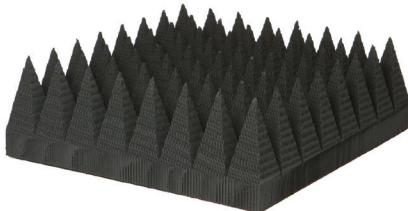


ABSORBER MODEL HP HIGH POWER MICROWAVE ABSORBER



MODEL HP HIGH POWER

- Extremely Low Flammability
- Fire Retardant
- Numerically Optimized Design
- Rapid "Pump-down" for High Vacuum Applications
- Honeycomb Structure
- Stable up to 250°C (482°F)

ETS-Lindgren's High-Power Absorber is a honeycomb substrate made from a phenolic-based material. Lossy films are coated on the walls of the honeycomb for effective absorption of incident electromagnetic waves. The hollow network of honeycombs allows air to be drawn through them while the phenolic-based material withstands high temperatures. The benefit is that electromagnetic energy flux can be loaded to the absorber at much higher power densities than conventional absorbers made with polyurethane material.

Based on a recent high power absorber study, our phenolic based material can withstand a maximum temperature up to 250°C (482°F) without forced airflow. With forced airflow, this absorber can withstand much higher electromagnetic field power densities. Our design engineers are ready to bring additional expertise on both RF and mechanical details to make our high power test systems achieve the design goals and safe operation required for your specific needs.

NOTE: The technical performance, while accurate, are dependant upon numerous application specific factors and not to be taken as a guarantee by ETS-Lindgren. The information is provided for the customer to evaluate their own application specific suitability.

Technical Specifications

Physical Specifications

Model	Overall Height	Base Height	Pyramid Height
HP-3PCL	8.3 cm (3.25 in)	1.9 cm (0.75 in)	6.4 cm (2.5 in)
HP-5PCL	12.7 cm (5.0 in)	2.5 cm (1.0 in)	10.2 cm (4.0 in)
HP-8PCL	21.6 cm (8.5 in)	5.1 cm (2.0 in)	16.5 cm (6.5 in)
HP-12PCL	31.1 cm (12.25 in)	5.7 cm (2.25 in)	25.4 cm (10.0 in)
HP-18PCL	46.4 cm (18.25 in)	5.7 cm (2.25 in)	40.6 cm (16.0 in)
HP-24PCL	61.0 cm (24.0 in)	10.2 cm (4.0 in)	50.8 cm (20.0 in)

Physical Specifications

Model	Nominal Weight	Pyramids Per Absorber
HP-3PCL	1 kg (2.20 lb)	256
HP-5PCL	1.6 kg (3.53 lb)	114
HP-8PCL	2.8 kg (6.17 lb)	64
HP-12PCL	3.8 kg (8.38 lb)	36
HP-18PCL	4.6 kg (10.14 lb)	16
HP-24PCL	6.1 kg (13.45 lb)	9

Standard Footprint: 61 cm x 61 cm (24 in x 24 in)

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Electrical Specifications

Max Reflections

Model	80 MHz	120 MHz	200 MHz	300 MHz	500 MHz	1–2 GHz	2–4 GHz	4–8 GHz	8–12 GHz	12–18 GHz	18–40 GHz
HP-3PCL								-25 dB	-35 dB	-40 dB	-40 dB
HP-5PCL							-25 dB	-35 dB	-40 dB	-45 dB	-45 dB
HP-8PCL						-25 dB	-35 dB	-40 dB	-45 dB	-45 dB	-45 dB
HP-12PCL						-30 dB	-35 dB	-40 dB	-45 dB	-45 dB	-45 dB
HP-18PCL					-25 dB	-35 dB	-40 dB	-45 dB	-45 dB	-45 dB	-45 dB
HP-24PCL			-15 dB	-25 dB	-30 dB	-35 dB	-45 dB	-45 dB	-45 dB	-45 dB	-45 dB