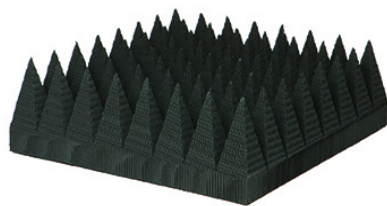


RF ABSORBERS HP High Power Microwave Absorber

ETS-Lindgren High Power Microwave Absorber is fabricated from high temperature materials.



ETS-Lindgren High Power Microwave Absorber is fabricated from high temperature materials. The pyramidal-shaped substrate is coated with a conductive polyimide resin film, the highest temperature polymer available.

The substrate used is a nylon honeycomb material, which is stable up to a temperature of 250°C (482°F). Due to the honeycomb structure and high temperature materials used, "pump-down" for high vacuum applications is rapid with low out gassing. The flammability of HP Series Absorber is substantially lower than for conventional microwave absorbers, the material being quite difficult to ignite. If ignited, the EHP HP Series Absorber will self-extinguish quickly after removal of the ignition source.

Key Features

- Extremely Low Flammability
- Fire Retardant
- Numerically Optimized Design
- Rapid "Pump-down" for High Vacuum Applications
- Honeycomb Structure
- Stable up to 200°C (392°F)

Specifications

Electrical Specifications

Maximum Reflections at Normal Incidence

	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
HP3PCL								-25 dB	-35 dB	-40 dB	-40 dB
HP5PCL							-25 dB	-35 dB	-40 dB	-45 dB	-45 dB
HP8PCL						-25 dB	-35 dB	-40 dB	-45 dB	-45 dB	-45 dB
HP12PCL						-30 dB	-35 dB	-40 dB	-45 dB	-45 dB	-45 dB
HP18PCL					-25 dB	-35 dB	-40 dB	-45 dB	-45 dB	-45 dB	-45 dB
HP24PCL			-15 dB	-25 dB	-30 dB	-35 dB	-45 dB	-45 dB	-45 dB	-45 dB	-45 dB

Physical Specifications

Dimensions by Model

Model	Overall Height	Base Height	Pyramid Height	Nominal Weight	Pyramids Per Absorber
HP-3PCL	8.25 cm (3.25 in)	1.9 cm (0.75 in)	6.4 cm (2.52 in)	1 kg (2.20 lb)	256
HP-5PCL	12.7 cm (5.00 in)	2.5 cm (0.98 in)	10.2 cm (4.02 in)	1.6 kg (3.53 lb)	144
HP-8PCL	26.1 cm (10.28 in)	5.1 cm (2.01 in)	16.5 cm (6.50 in)	2.8 kg (6.17 lb)	64
HP-12PCL	31.1 cm (12.24 in)	5.7 cm (2.24 in)	25.4 cm (10.00 in)	3.8 kg (8.38 lb)	36
HP-18PCL	46.4 cm (18.27 in)	5.7 cm (2.24 in)	40.6 cm (15.98 in)	4.6 kg (10.14 lb)	16
HP-24PCL	61 cm (24.02 in)	10.2 cm (4.02 in)	50.8 cm (20.00 in)	6.1 kg (13.45 lb)	9