

RF ABSORBERS EHP High Performance Microwave Pyramidal Absorber

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After the addition of salts for the combustion limited version of the absorber, the buns are dried. The buns are then cut into precision shapes, such as pyramidal, wedge, and other geometrical shapes. Each piece of material is treated with a dielectric coating to provide a pleasant appearing, functional unit with superior performance properties.

Whether you need just a few pieces of absorber or a complete turnkey chamber, we have the experience and resources to help you with the right solution.

Key Features

- Numerically Optimized Design
- Fire Retardant

Specifications

Electrical Specifications

Maximum Power Density: 775 W/m², 77.5 mW/cm², 0.5 W/in²

Frequency Range by Model

Model	Frequency Minimum	Frequency Maximum
EHP-3PCL	4 GHz	40 GHz
EHP-5PCL	2 GHz	40 GHz
EHP-8PCL	1 GHz	40 GHz
EHP-12PCL	1 GHz	40 GHz
EHP-18PCL	500 MHz	40 GHz
EHP-24PCL	200 MHz	40 GHz
EHP-36PCL	80 MHz	40 GHz
EHP-48PCL	80 MHz	40 GHz
EHP-72PCL	80 MHz	40 GHz

Maximum Reflections at Normal Incidence

	80 MHz	120 MHz	200 MHz	300 MHz	500 MHz	1-2GHz	2-4 GHz	4-8 GHz	8-12 GHz	12-18 GHz	18-40 GHz
EHP3PCL								-30 dB	-40 dB	-45 dB	-45 dB
EHP5PCL							-30 dB	-40 dB	-45 dB	-50 dB	-50 dB
EHP8PCL						-30 dB	-40 dB	-45 dB	-50 dB	-50 dB	-50 dB
EHP12PCL						-35 dB	-40 dB	-45 dB	-50 dB	-50 dB	-50 dB
EHP18PCL					-30 dB	-40 dB	-45 dB	-50 dB	-50 dB	-50 dB	-50 dB
EHP24PCL			-20 dB	-30 dB	-35 dB	-40 dB	-50 dB	-50 dB	-50 dB	-50 dB	-50 dB
EHP36PCL	-11 dB	-13 dB	-25 dB	-30 dB	-40 dB	-45 dB	-50 dB	-50 dB	-50 dB	-50 dB	-50 dB
EHP48PCL	-15 dB	-20 dB	-30 dB	-35 dB	-40 dB	-45 dB	-50 dB	-50 dB	-50 dB	-50 dB	-50 dB
EHP72PCL	-20 dB	-30 dB	-40 dB	-40 dB	-45 dB	-50 dB	-50 dB	-50 dB	-50 dB	-50 dB	-50 dB

Physical Specifications

Adhesive: Yes

Clip: Yes

Color: Rantec Blue

Environmental Temperature: 22° C ± 10° C (70° F ± 20° F) Maximum

Service Temperature: 90° C (190° F)

Ratings, Fire Retardant: NRL 8093 Tests 1, 2 & 3, TI #2693066, MIT MS-8-21, UL 94 and DIN 4102-B2

Specifications Relative Humidity: 50% ± 20%

Velcro: 45.72 cm (18 in)

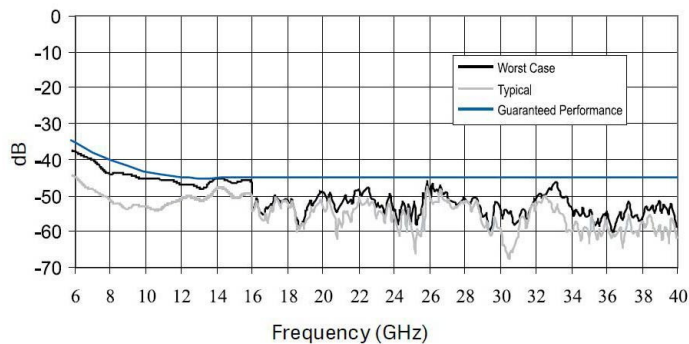
Dimensions by Model

Model	Absorber Footprint	Base Height	Overall Height	Pyramid Height	Weight
EHP-3PCL	24 in x 24 in	1.9 cm (0.75 in)	8.25 cm (3.25 in)	6.4 cm (2.52 in)	1 kg (2.20 lb)
EHP-5PCL	24 in x 24 in	2.5 cm (0.98 in)	12.7 cm (5.00 in)	6.4 cm (2.52 in)	1.6 kg (3.53 lb)

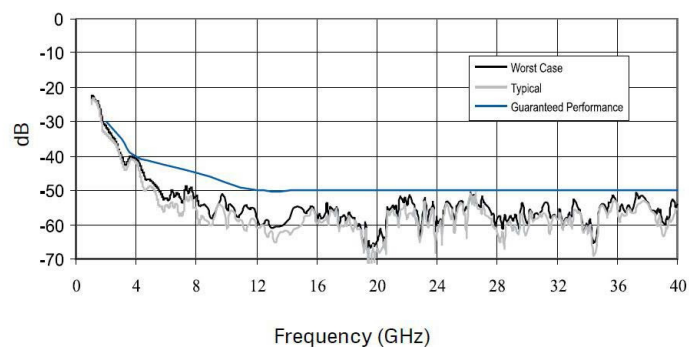
EHP-8PCL	24 in x 24 in	5.1 cm (2.01 in)	21.6 cm (8.50 in)	16.5 cm (6.50 in)	2.8 kg (6.17 lb)
EHP-12PCL	24 in x 24 in	5.7 cm (2.24 in)	31.1 cm (12.24 in)	25.4 cm (10.00 in)	4.6 kg (10.14 lb)
EHP-18PCL	24 in x 24 in	5.7 cm (2.24 in)	46.4 cm (18.27 in)	40.6 cm (15.98 in)	4.6 kg (10.14 lb)
EHP-24PCL	24 in x 24 in	10.2 cm (4.02 in)	61.0 cm (24.02 in)	50.8 cm (20.00 in)	6.1 kg (13.45 lb)
EHP-36PCL	24 in x 24 in	15.2 cm (5.98 in)	91.4 cm (35.98 in)	76.2 cm (30.00 in)	9.5 kg (20.94 lb)
EHP-48PCL	24 in x 24 in	20.3 cm (7.99 in)	121.9 cm (47.99 in)	101.6 cm (40.00 in)	11.3 kg (24.91 lb)
EHP-72PCL	24 in x 24 in	30.5 cm (12.01 in)	182.9 cm (72.01 in)	152.4 cm (60.00 in)	15.9 kg (35.05 lb)

Product Charts

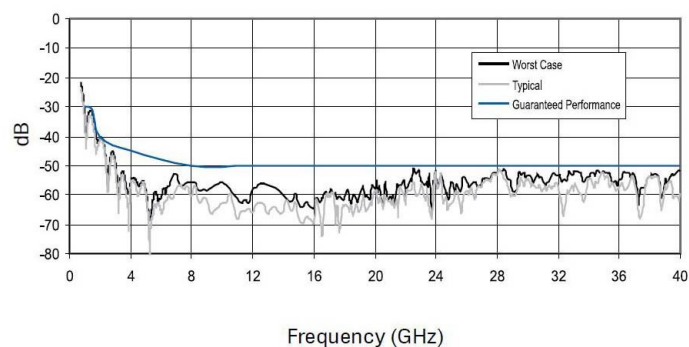
EHP-3PCL
Measured Reflections
at Normal Incidence



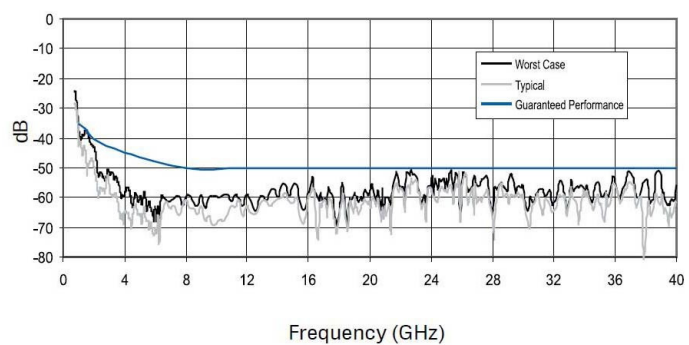
EHP-5PCL
Measured Reflections
at Normal Incidence



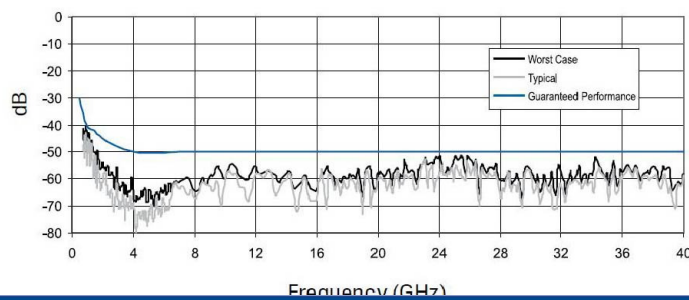
EHP-8PCL
Measured Reflections
at Normal Incidence



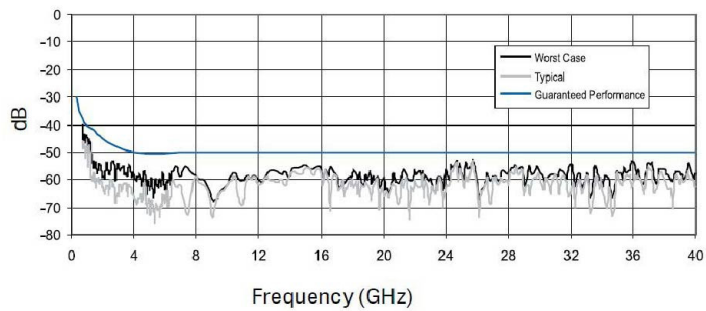
EHP-12PCL
Measured Reflections
at Normal Incidence



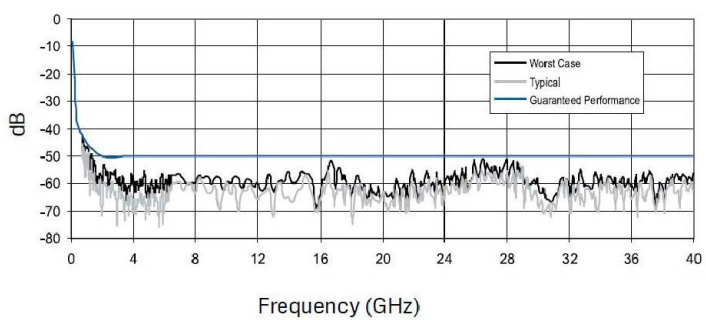
EHP-18PCL
Measured Reflections
at Normal Incidence



EHP-24PCL
Measured Reflections
at Normal Incidence



EHP-36PCL
Measured Reflections
at Normal Incidence



EHP-48PCL
Measured Reflections
at Normal Incidence

