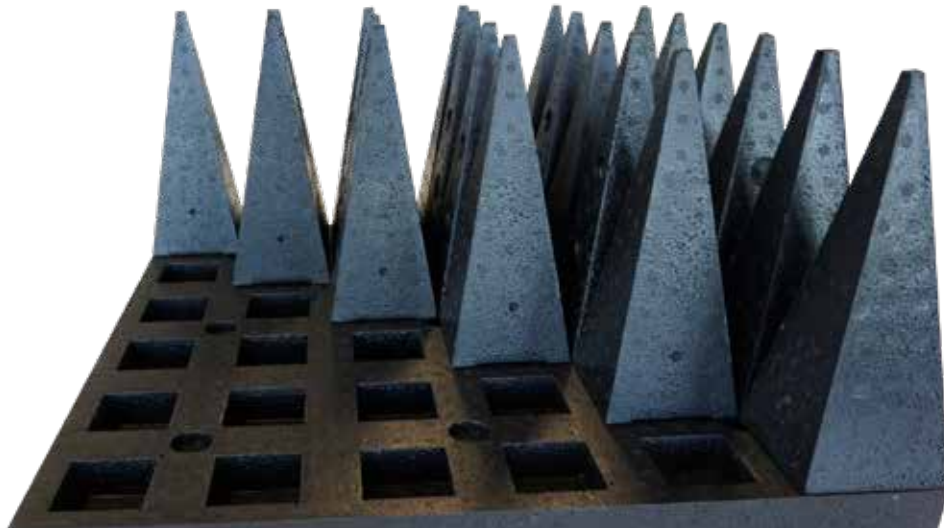




POLYPROPYLENE (PP) BASED MICROWAVE ABSORBER 3710

Antenna measurement in anechoic rooms on high frequency range



The Polypropylene (pp) based microwave(electromagnetic wave) absorber is looking the same as our Polypropylene (pp) based hybrid pyramid absorber 3700 but this absorber is used on the high frequency range. The absorber is designed for antenna measurement in anechoic rooms and solution for Antenna Pattern Measurement (APM), Antenna Test Range (ATR), Radar Cross Section (RCS) and Electronic Warfare Test (EWT) chambers.

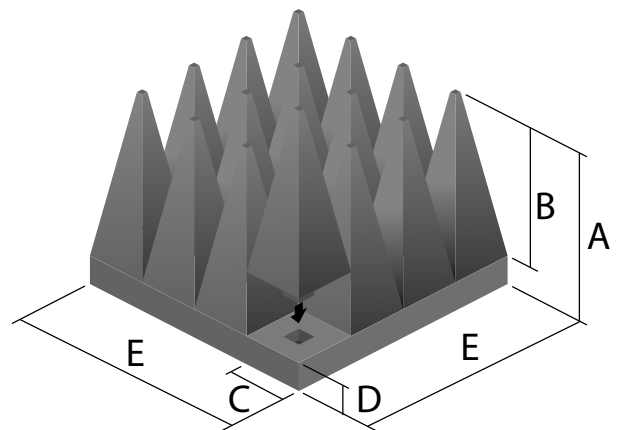
Depending on the different range of sizes, each size has its own reducing factor of electromagnetic waves. It can be used to cover up the low frequency band without the use of ferrite tiles.

It is possible to place the absorber on the floor. For this we've developed the Walkable floor for absorbers 3640-Floor series. When installed it can be used to perform sVSWR tests in EMC chambers. Depending on the size of your shielded box it also can be used for high frequency range tests as well.

FEATURES

- Polypropylene based microwave broadband absorber
- Specifically designed for high frequency range
- Suitable for antenna pattern measurement chamber
- High uniformity of carbon powder density
- Provides repeatable and accurate test results
- Extremely low carbon dust emission
- Foam expansion molding manufacture system
- Eco friendly
- Water resistant
- Fire resistant
- Light weight material
- Easy installation

TECHNICAL DRAWING



MATERIAL CHARACTERISTICS

Color	Black
Material	Polypropylene (pp)
Shape	Pyramid
Power handling capacity	1.5 kW/ m2 or 752 V/m
Max service temperature	100°C
Cleanroom equipment suitability	ISO 14644 Class 4
Fire retardancy	UL94 HBF / DIN 4102 Class B2

Technical Datasheet

Revision date: 30-01-23

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PHYSICAL PROPERTIES

Partnumber	Weight (kg)	No. of Tips	Type	Absorber Dimensions (mm)				
				A	B	C	D	E
3710-100	0.86 (0.21)	144 (36)	Single unit	100	70	50	30	600 (300)
3710-200	1.39 (0.35)	64 (16)	Single unit	200	170	75	30	600 (300)
3710-300	1.89	36	Plug & Pull	300	260	100	40	600
3710-500	3.00	16	Plug & Pull	500	440	150	60	600
3710-750	4.38	9	Plug & Pull	750	670	200	80	600

Due to the characteristics of polypropylene material, the dimensional tolerances of 5mm may be occurred during transportation.

TYPICAL REFLECTIVITY

Part number	30 MHz	50 MHz	100 MHz	500 MHz	1 GHz	3 GHz	5 GHz	10 GHz	18 GHz	28 GHz	40 GHz
3710-100					-28	-32	-33	-33	-33	-33	-33
3710-200					-30	-40	-40	-50	-50	-50	-50
3710-300	-1	-3	-24	-28	-35	-48	-48	-50	-50	-50	-50
3710-500	-4	-11	-29	-34	-45	-50	-50	-50	-50	-50	-50
3710-750	-9	-20	-32	-37	-46	-50	-50	-50	-50	-50	-50