

New PPM Hybrid Absorber Range



SCAN ME

PPM-Range Hybrid Absorber

The Global EMC PPM-Range is the latest development in anechoic pyramidal absorbers. The absorbers are specially designed to work in conjunction with Global EMC's GF 102 ferrite tiles. The resistive doping is designed specifically for use with Ferrite tiles and cannot be used independently.

There are 4 models in the PPM-range. The PPM-300, PPM-500 PPM-700 and PPM-900. The part number of the absorbers can easily be recognised by measuring the length of the absorber. For example, the PPM-500 relates to a length of 500mm from tip to base.

The easy to install "plug-in" 600mm x 600mm base solution gives nonreflective edges, perfect for higher frequency testing whilst also giving a uniform and precise fit every time. Modular in construction, the absorber bases fit perfectly to different sized test chambers and measurement rooms.

Designed primarily for EMC test chambers the range of absorbers can be found in Global EMC's SAC-3m-C, SAC-10mC, FAC-3m-PCE, FAC-3m-C, CISPR12/25-V, CISPR12/25-C, MIL-STD461G, DEF-STAN59-411 chambers.

The long-life expectancy of more than 40 years gives an excellent product lifespan with no carbon migration over time. High wear resistance is integral to the design, but should accidental damage occur, each individual pyramid is quickly removable and replaceable without any specialist tools. The main advantage of this absorber compared to the RLT-xxx range is its durability. Hardened and much more difficult to break a tip, these absorbers are perfect for the ruggedised environment of Military or Vehicle chambers at a similar cost to the RLT range.

Applications

Superb anechoic performance. Perfect uniform precision fit. 35+ year's lifespan.
Optimised return loss performance.



Vehicle Testing



Military Testing



Fully Compliant



Anechoic
Chambers

Designed for anechoic test chambers, military test chambers and vehicle test chambers

For more information on Global EMC, visit our website by scanning the QR code



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Fire Safety

Fire safety is paramount in any anechoic chamber or test measurement facility. The PPM-Range of anechoic absorbers have been rigorously tested to ensure their performance under fire conditions.

Each absorber is given an enhanced strengthening treatment during manufacturing for fire/flame resistance to NRL 8093 class I, II and III, DIN 4102-1 Class B1 and ISO 11925-2 Class E.

Physical Properties

Model	Height (mm)	Weight (kg/m ²)	Peaks Per Base	Base Size (mm)
PPM-300	300	6	36	600 x 600
PPM-500	500	9.5	16	600 x 600
PPM-700	700	12.5	9	600 x 600
PPM-900	900	17	9	600 x 600

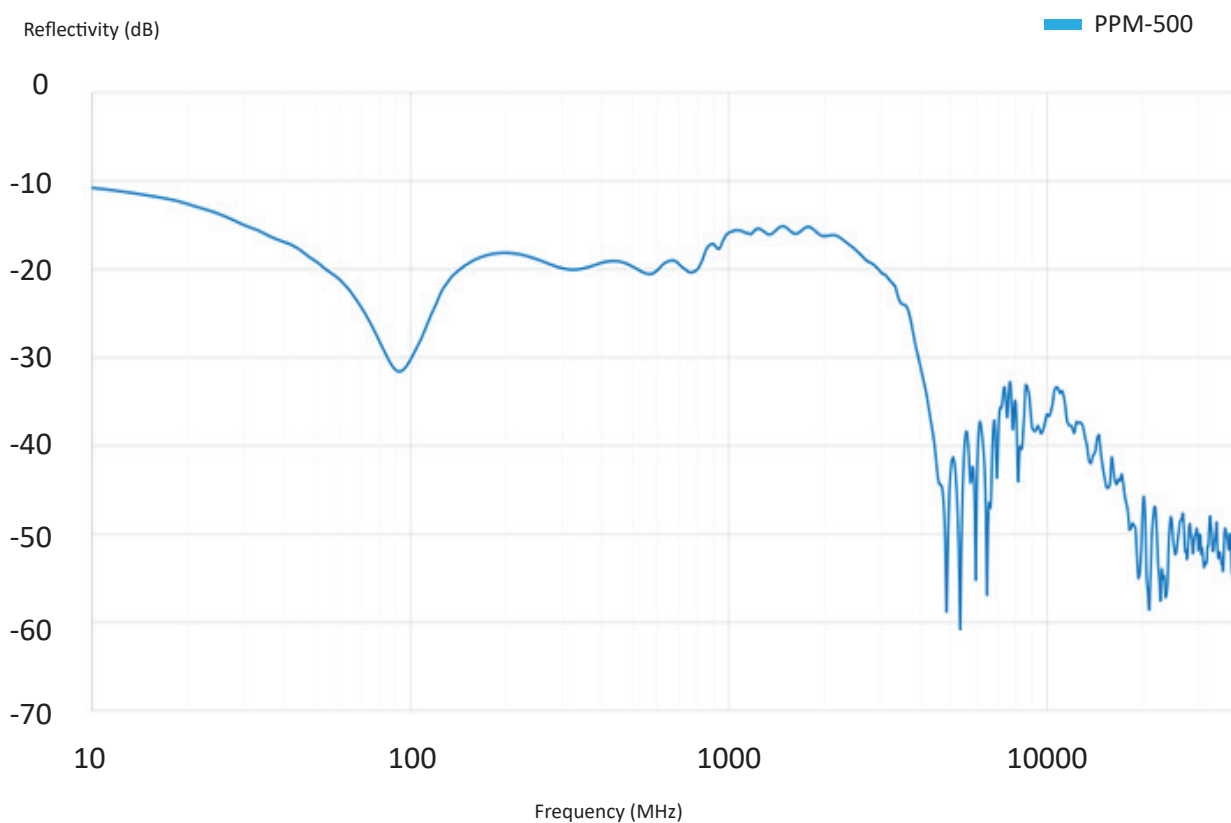
Performance

Model	Length (mm)	Weight (kg/m ²)	Normal incidence return loss (-dB)											Base Size (mm)
			0.03	0.05	0.08	0.2	0.5	1.5	3	5	10	18	40	
PPM-300	300	6	14	16	25	17	20	13	15	20	25	30	40	600 x 600
PPM-500	500	9.5	15	17	25	18	20	15	20	25	30	30	40	600 x 600
PPM-700	700	12.5	16	18	25	19	20	18	25	30	30	30	40	600 x 600
PPM-900	900	17	19	20	20	17	20	20	25	30	35	40	45	600 x 600

Product Characteristics

Product Material	Polypropylene foam
Standard Colour	Black / White
User Frequency	30 MHz to 110 GHz (depending on model)
Operating Temperature	30°C + 70°C
Power Capacity	1000 W/m2
ROHS	2011/65/EU Amendment (EU) 2015/863 Appendix I
Reach	EC 1907/2006
Cleanliness	ISO14644-1 Class 4 Clean room standard (1000)
Formaldehyde Emission	GB18580-2001 E1 Class
Lifetime	35 years +

The absorbers are non-hygroscopic, giving excellent water and moisture resistance and enabling their use in high humidity chambers. With no shedding, each pyramid is cleanable and suitable for use in cleanroom environments.



The PPM series absorbers meet the ISO14644-1 class 4 cleanliness level, third party lab highest testing level is ISO14644-1 class 8.

Particle information in following table.

ISO 14644-1:2015 Classification of air cleanliness by particle concentration						
ISO Class (N)	Maximum allowable concentrations (particles/m ³) for particles equal to and greater than the considered sizes, shown below.					
	≥ 0.1 µm (m ³)	≥ 0.2 µm (m ³)	≥ 0.3 µm (m ³)	≥ 0.5 µm (m ³)	≥ 1.0 µm (m ³)	≥ 5.0 µm (m ³)
ISO 1	10 ^b	d	d	d	d	e
ISO 2	100	24 ^b	10 ^b	d	d	e
ISO 3	1.000	237	102	35 ^b	d	e
ISO 4	10.000	2.370	1.202	352	83 ^b	e
ISO 5	100.000	23.700	10.200	3.520	832	d,e,f
ISO 6	1.000.000	237.000	102.000	35.200	8.320	293
ISO 7	c	c	c	352.000	83.200	2.930
ISO 8	c	c	c	3.520.000	832.000	29.300
ISO 9 ^g	c	c	c	35.200.000	8.320.000	293.000

Disclaimer

All pictures are for illustration purposes only and Global EMC reserve the right to change the products aesthetics.

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