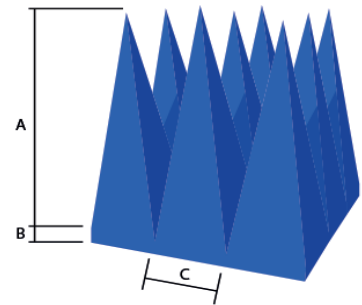
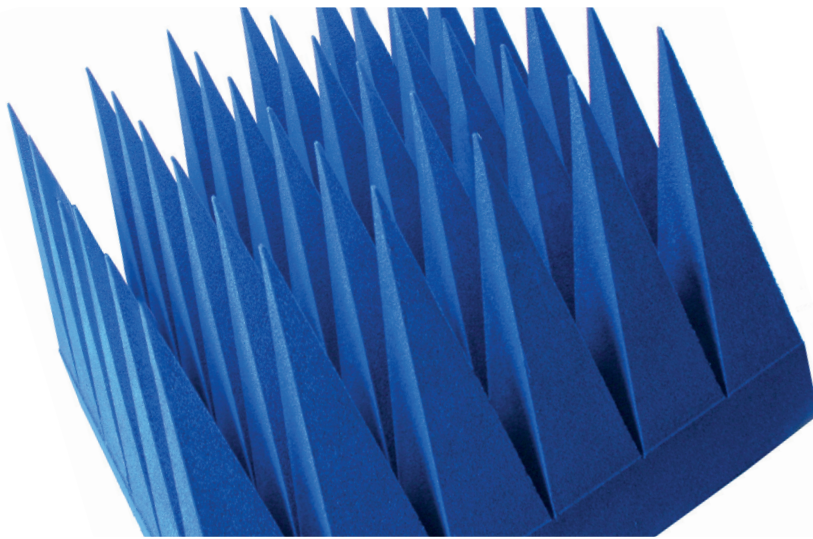


PU FOAM BASED PYRAMID ABSORBERS 3640

These PU foam bases pyramid absorbers are the most popular solution for 3m, 5m and 10m EMC chambers in the market



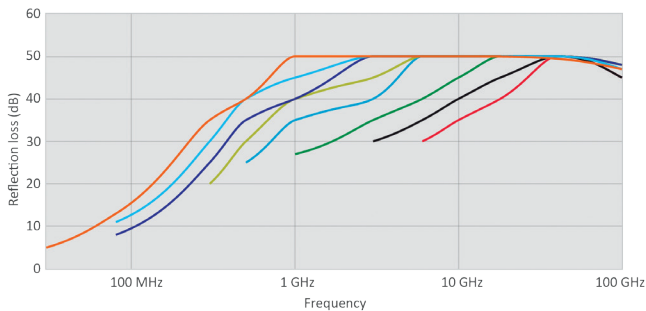
SOLUTION FOR 3M, 5M AND 10M EMC CHAMBERS IN THE MARKET

These absorbers are the most popular solution for 3m, 5m and 10m EMC chambers in the market. They are composed of pyramidal, full tip SAM or truncated SMT pulsing the matching layer to separate the pyramidal part from the ferrite part. Through optimization, this product has a superb performance across 30MHz to 18GHz. The ferrite performs from 30MHz to 1GHz and the foam performs above 1GHz.

Prototypes are made and the design is tested. Results become part of a valuable feedback loop for refining our design further. Broadband Pyramidal Absorber is a low density polyurethane foam, filled with high loss dielectric material in open cell structure and finished with blue paint.

The general base size is 60 cm x 60 cm with 50 mm to 1200 mm height pyramidal. It's flexible and light weight, can be attached on the wall easily. It is a high performance broadband RF absorber and widely used for Anechoic Chambers.

REFLECTION LOSS UNDER VERTICAL INCIDENCE (-DB @ GHZ)



Legend for Reflection Loss graph:

- 3640-50 (Red)
- 3640-96 (Black)
- 3640-190 (Green)
- 3640-300 (Blue)
- 3640-495 (Light Green)
- 3640-700 (Dark Blue)
- 3640-1000 (Cyan)
- 3640-1200 (Orange)

CHARACTERISTICS

- Such absorbers have a pyramid-shaped appearance, with blue color (it can be selected as request)
- Pliable and flexible, the pyramids won't bend in long-term use, and its absorbing properties won't be changed within 10 years.
- Oxygen index $\geq 29\%$ (GB/T2406-93), which belongs to flame retardant B2 level (GB8624-1997)
- Good environmental performance, all raw materials can meet the environmental requirements, no volatile, no smell and non-toxic.
 - Working conditions: general indoor application
 - Long-time working temperature: $-50^{\circ}\text{C} \sim 90^{\circ}\text{C}$
 - Short-time working temperature: $-100^{\circ}\text{C} \sim 120^{\circ}\text{C}$
 - Relative humidity: $55\% \pm 15\%$
 - Frequency range: 30MHz \sim 110GHz

PRODUCT SPECIFICATION AND PART NUMBERS

Part number	Base size (mm x mm)	Pyramid quantity per unit	Unit size A * C * B (mm xmm xmm*)	Standard weight (kg/m ²)
3640-50		576	50 x 18.5 x 15	1.5
3640-96		225	96 x 36 x 20	2.2
3640-190	600 x 600	81	190 x 65 x 50	4
3640-300		36	300 x 100 x 60	7
3640-495		16	495 x 145 x 65	11
3640-700		9	700 x 195 x 130	16
3640-1000	300 x 300	1	1000 x 300 x 150	22
3640-1200	400 x 300	1	1200 x 400 x 200	25

Please note : For the data below 500MHz, it is obtained by low-frequency coaxial test method (GJB5239-2004); while for the data above 1GHz, it is obtained by far-field RCS test method (GJB2038A-2011) The performance data listed in the above table is the guaranteed data, and the measured data would be equal to or better than the guaranteed data. Certification: CE ROHS

ORDER EXAMPLE

Series 3640 **Height** [Redacted]

PU foam based pyramid absorbers with a height of 300mm can be delivered from stock