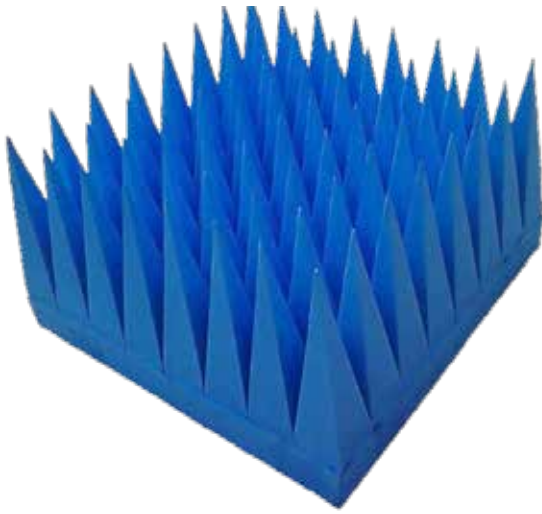




3680 - Nonflammable high power handling absorbers



Nonflammable high power handling absorber, is a non-woven fabrics based hollow broadband microwave absorbers with fire retardant and microwave absorption impregnated.

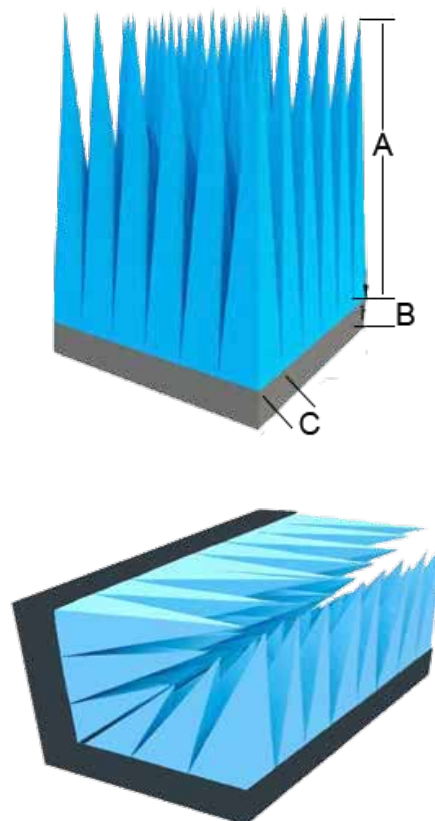
It is mainly used in microwave anechoic chambers, and it can be used to shield the test equipments inside the chamber; under vertical incidence and oblique incidence conditions, it has better broadband performance; meanwhile, it has a good scattering attenuation and isolation performance, and it can be applied for all parts of the anechoic chambers.

It is a hollow broadband microwave absorber which is made of a heat resistance non-woven fabric which is dipped with flame retardants and microwave absorbing agents, and it is mainly used in microwave anechoic chamber and covers the test equipments. Under the condition of normal incidence and oblique incidence, it has better broadband performance as well as scattering and isolation attenuation performance; it can be used in any part of the chamber.

Characteristics

- Good flame retardant characteristics, it won't burn when it encounter the fire, it has oxygen index $\geq 60\%$ and flame retardant B1 level.
- Excellent high power handling capacity, it can withstand the power irradiation (continuous wave) $\geq 6\text{kW}/\text{m}^2$
- It adopts keel mounting method, without any adhesive
- The absorbing performance of such absorbers is equal to or better than the PU foam absorber with same height
- It adopts inorganic flame retardants and microwave absorption, no volatile, no smell and non-toxic; it is stable in long-term use.
- Working conditions:
 - Long-time working temperature: $-50^\circ\text{C} \sim 120^\circ\text{C}$
 - Short-time working temperature: $-100^\circ\text{C} \sim 150^\circ\text{C}$
 - Relative humidity: $55\% \pm 15\%$

Schematic diagram of high power handling nonflammable pyramid absorber



Schematic diagram of nonflammable pyramid absorber

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Product specification and part numbers

Part number	Base size (mm x mm)	Pyramid quantity per unit	Unit size A x C x B (mm x mm x mm)	Standard weight (kg/m ²)
3680-190	500x500	81	190x65x50	10
3680-300		64	300x60x50	13
3680-500		64	500x60x76	19
3680-690		36	690x80x90	20
3680-1000		16	1000x123x160	26
3680-1200		9	1200x163x180	28
3680-1500		9	1500x163x205	29
3680-1600		9	1600x163x220	40

Reflection loss / Shielding performance

Part number	Reflection loss under vertical incidence (-dB @ GHz)											Power handling capacity kW/m ²
	0.03	0.08	0.3	0.5	1	3	6	10	18	40	100	
3680-190					27	35	40	45	50	50	45	3
3680-300				25	35	40	50	50	50	50	45	3
3680-500			20	30	40	45	50	50	50	50	45	4
3680-690		8	25	35	40	50	50	50	50	50	45	5
3680-1000		11	30	40	45	50	50	50	50	50	45	5
3680-1200	5	13	35	40	45	50	50	50	50	50	45	6
3680-1500	11	14	35	40	50	50	50	50	50	50	45	6
3680-1600	14	16	35	45	50	50	50	50	50	50	45	6

These values are measured under laboratory conditions.
In your situation results may differ, please read our Guarantee

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.
- 3680-1600 can also be used in EMC chambers such as 10 meters and 3 meters.
- The bold part number is a stock item and can be delivered immediately
- Certification: CE ROHS

Order information

When you want to order 3680 Nonflammable high power handling absorbers please specify the part number as follow:

Part number	Height (mm)
3680	300