

UHF FERRITE ABSORBER TILES 3610

Ferrite absorber tile is the industry standard solution and exhibits excellent overall performance versus cost



Our 3610 series Ferrite absorber tile is the industry standard solution and exhibits excellent overall performance versus cost. It is an attractive alternative to traditional, large, foam-type absorber materials for new anechoic chambers or for upgrading existing rooms for radiated emission and immunity measurements.

These tiles are a quite recent development. They are used when relatively high absorption is required together with a compact solution (up to -37 dB @ 800 ~ 900MHz). They also provide a reliable and compact solution for attenuating plane-wave reflections in shielded enclosures.

For the best economical choice, see our most common 3600 series VHF ferrite absorbers. These are the most frequently used choice for Anechoic chambers.

3610 UHF FERRITE ABSORBER TILE

UHF ferrite absorber tile is made of a sintered ferrite in the shape of a square tile. The dimensions are 100 x 100 mm with a thickness of 4.0mm.

The tiles can easily be screwed on to a wall individually, inserting screws through the 10mm hole, or mounted by means of adhesive. The tiles are optionally available in panel format. The tiles are surface-ground on all sides to precise mechanical tolerances, minimizing gaps between adjacent tiles to ensure maximum low-frequency performance.

The tiles provide excellent electromagnetic absorption in the UHF band. The product works well in a Dark box for mobile phone inspection and EMC anechoic chambers, and it is also suitable for high buildings to prevent TV ghost or for the absorption of RFID.

FEATURES

- Absorption of lower electromagnetic waves in the range of 30MHz ~ 1GHz
- Wide frequency and fire resistant
- An electromagnetic absorbing material
- Easy and quick to assemble
- No physical degradation over time
- Ultra thin, so takes up little space

APPLICATIONS

- Dark box for mobile phone inspection
- Prevention of radio communications disturbance
- Prevention of TV ghost
- Prevention of UHF RFID-readers interference

CHARACTERISTICS

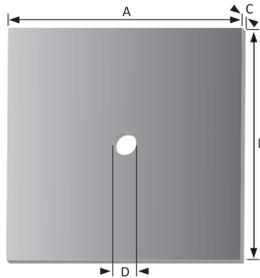
- Standard weight : 214 gr.
- Standard dimensions : 100 x 100 x 4.0 mm
- Main hazards : No risk of explosion, flammability, reactivity or health hazard

MATERIAL CHARACTERISTICS

Characteristics	Symbols	Units	3610 series
Initial permeability	μ_{iac}		100 ±20%
Relative loss factor	$\tan\delta/\mu_{iac}$	$\times 10^{-6}$	52 (1.0MHz)
Saturation flux density (1194A/m)	Bs	mT	380
Remanence	Br	mT	300
Corrective	Hc	A/m	120
Relative temp. factor (20 °C~60 °C)	$\alpha_{\mu r}$	$\times 10^{-6}/^{\circ}C$	5~10
Curie temperature	Tc	°C	> 300
Density	δ	Kg/m ³	5.0 x 10 ³
Resistivity	ρ	M Ω *m	> 5.0
Frequency coverage of Reflection loss (under -20dB)	-	MHz	630~1040
Optimized thickness of tiles	-	Mm	4.0

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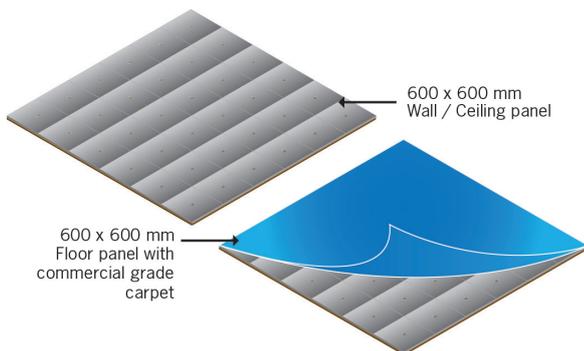
PART NUMBERS AND DIMENSIONS



Part number	A (mm)	B (mm)	C (mm)	D (mm)	Weight (Gr)
3610-100-40	100 (±0.5)	100 (±0.5)	4.00 (±0.2)	10 (±0.2)	214

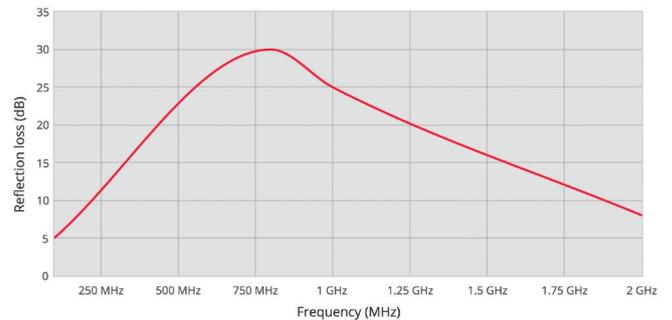
SUPPLIED AS 600 X 600MM PANELS (OPTIONALLY AVAILABLE)

Both the 3600 VHF ferrite absorber tile and the 3610 UHF ferrite absorber tile are optionally available in the panel format of 36 Ferrite absorber tiles.



PERFORMANCE CHARACTERISTICS

(Normal incidence reflection loss)
Reflective attenuation vs. frequency

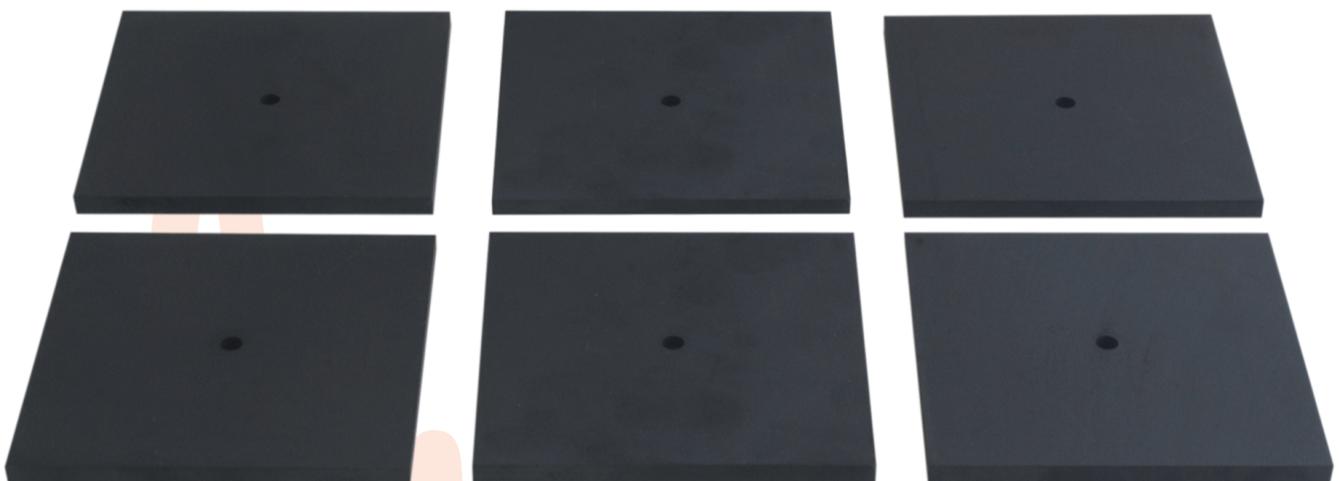


■ 3610-100-67

Please note : These values are measured under laboratory conditions. Results may vary in other situations. Please read our Guarantee.

ORDER EXAMPLE

Series	Size
3610	100
	100 : 100 x 100 mm
	600 : 600 x 600 mm



*Notice

Information supplied in these data sheets is based on independent and laboratory tests which Holland Shielding Systems BV, hereafter referred to as HSS believes to be reliable. HSS has no control over the design of customer's product which incorporates products, therefore it is the responsibility of the user to determine the suitability for his particular application and we recommend that the user make his own test to determine suitability.

The product described in this data sheet shall be of standard quality, however the products are sold without warranty of fitness for a particular purpose, either expressed or implied, except to the extent expressly stated on HSS invoice, quotation or order acknowledgment. HSS does not warrant that products described in this data sheet will be free of conflict with existing or future patents of third parties. All risks of lack of fitness, patent infringement and the like are assumed by the user.