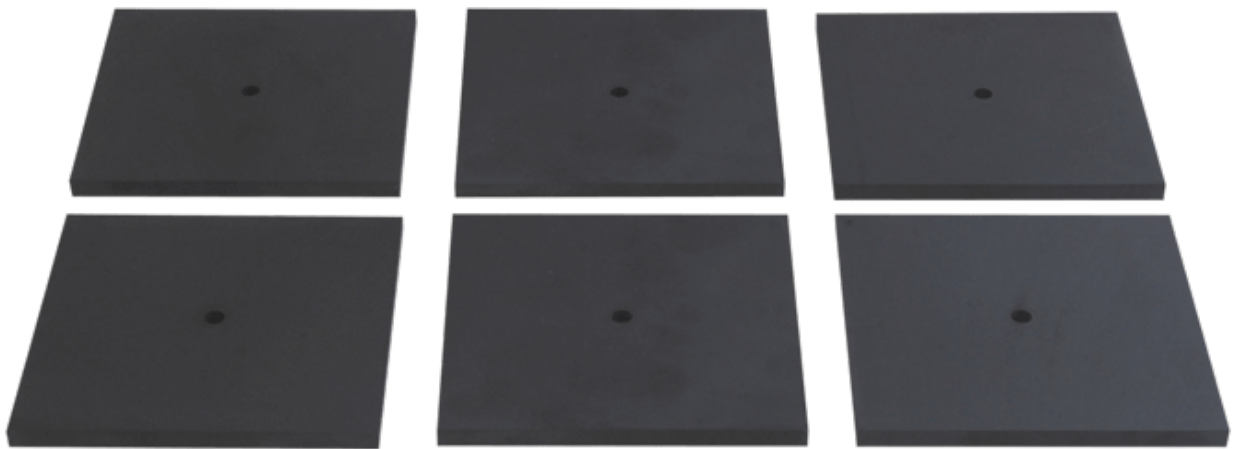


UHF ferrite absorber tiles



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 or 600 x 600 mm with a thickness of 4.0 mm.

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.

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 (1194 A/m) | B_s | mT | 380 |
| Remanence | B_r | mT | 300 |
| Coercivity | H_c | A/m | 120 |
| Relative temp. factor (20 °C ~ 60 °C) | $\alpha_{\mu r}$ | $\times 10^{-6}/^{\circ}\text{C}$ | 5~10 |
| Curie temperature | T_c | °C | > 300 |
| Density | δ | kg /m ³ | 5.0 x 10 ³ |
| Resistivity | ρ | MΩ*m | > 5.0 |
| Frequency coverage of Reflection loss (under -20dB) | - | MHz | 630~1040 |
| Optimized thickness of tiles | - | mm | 4.0 |

UHF ferrite absorber tiles

Features

- Absorption of lower electromagnetic waves in the range of 30 MHz ~ 1 GHz
- 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

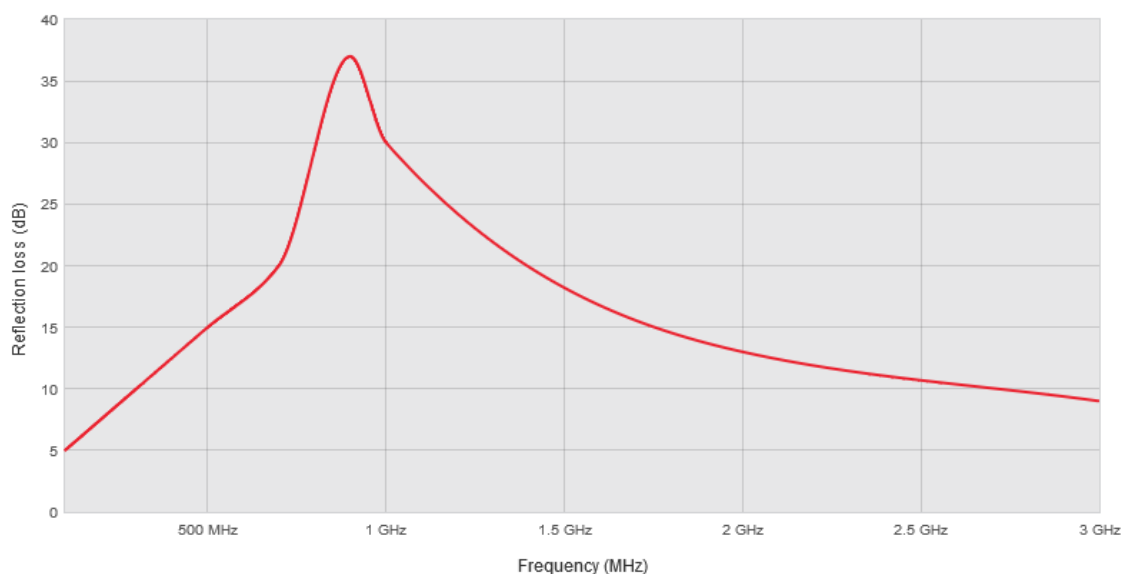
Applications

- 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

Performance characteristics



■ 3610 - UHF ferrite absorber tile

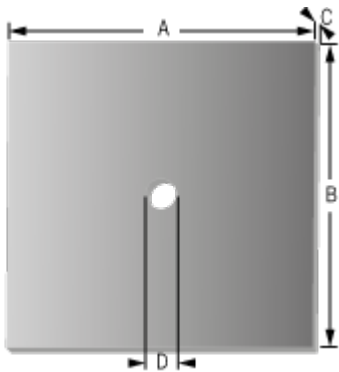
Please note : These values are measured under laboratory conditions. Results may vary in other situations; please read our Guarantee.

Core set parameters

| | | |
|--------------------------------|----|------------------|
| Core constant | C1 | mm ⁻¹ |
| Effective magnetic path length | le | mm |
| Effective cross-sectional area | Ae | mm ² |
| Effective volume | Ve | mm ³ |
| Center leg area | Ac | mm ² |
| Winding area | Aw | mm ² |

Produkt anfragen

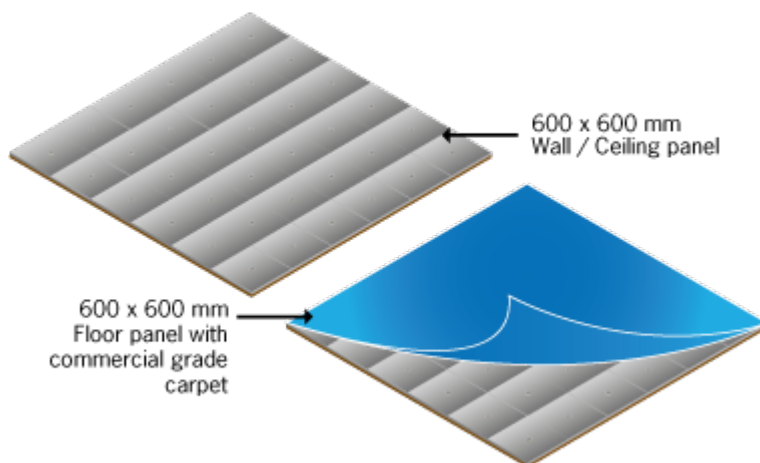
UHF ferrite absorber tiles



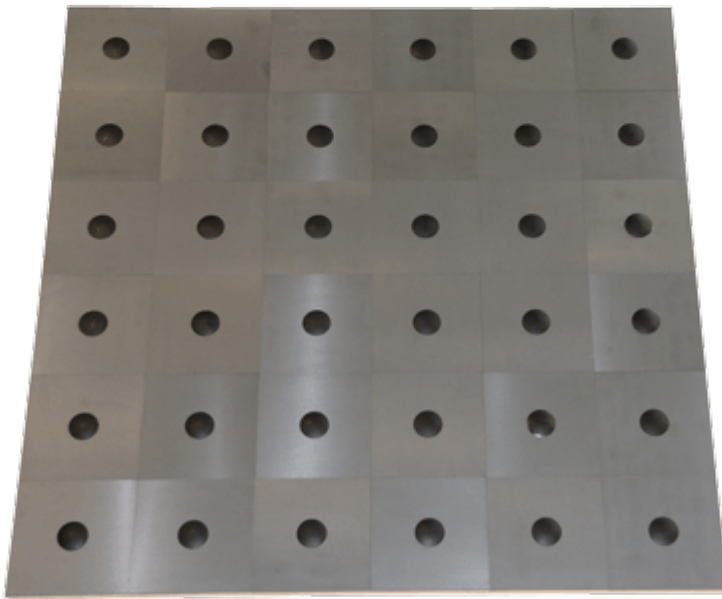
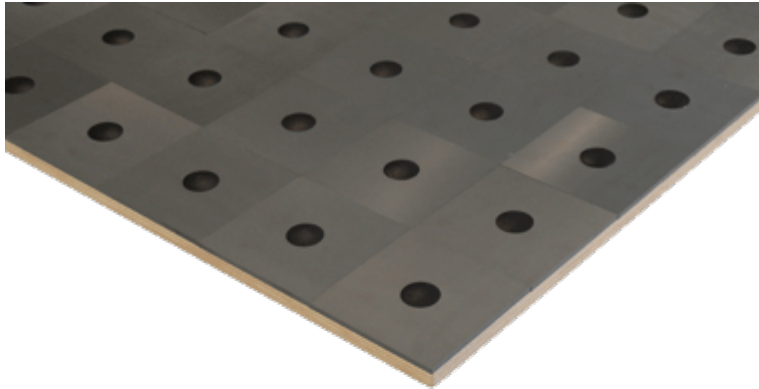
| Part number | A (mm) | B (mm) | C (mm) | D (mm) | Weight (gr) |
|-------------|----------------------|----------------------|--------------------|---------------------------|-------------|
| 3610-100-40 | 99.95 (± 0.10) | 99.95 (± 0.10) | 4.00 (± 0.1) | 10 (± 0.2) | 214 |
| 3610-600-40 | 59.97 (± 0.10) | 59.97 (± 0.10) | 4.00 (± 0.1) | 10 (± 0.2) (36x) | 7704 |

Supplied as 600 x 600mm panels (optionally available)

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



UHF ferrite absorber tiles



| Product nr | size | 4.0 |
|------------|---|-----|
| 3610 | Select an option: 100 : 100x100mm 600 : 600x600mm | 4.0 |

* Note: The red blocks are required