

Product overview Microwave absorbers

(MT-series)

MT microwave absorbers are high performance, broad band, carbon loaded polystyrene absorbers with an operating frequency from 70 MHz to 110 GHz. Due to the excellent performance at microwave frequencies the MT series is suited for Antenna Pattern Measurement (APM), Compact Antenna Test Range (CATR), Radar Cross Section (RCS) and Electronic Warfare (EW) anechoic chamber applications.

The MT microwave absorber series consist of three different models:

- MT25 (10")
- MT45 (18")
- MT65 (26")

The base plate dimensions of Comtest absorbers is 1200*600mm. All absorbers have a modular design of separate base plates and tapers. Upon customer request the microwave absorbers can be equipped with white end caps.



Unique selling point

The unique selling point of Comtest absorbers is its absence of poisonous fire retardant chemicals. Comtest absorbers are sustainable, environmental friendly and compliant with REACH and ROHS.

Benefits

The benefits of Comtest microwave absorbers are:

- ✓ Unique and enhanced product design:
 - ✓ Alternate taper design (vertical – horizontal)
 - ✓ Light weight (5,7 kg/m²)
 - ✓ Removable tapers
- ✓ Compliant with clean room class 10.000 / ISO14644-1 class 4
- ✓ Uniform carbon cell loading
- ✓ Compliant with fire retardancy ISO 11925-2 class E / DIN 4102 class B2
- ✓ Rigidity and superior tensile strength
- ✓ Superior product life time (>40 years)
- ✓ Resilience to humidity.

Quality control

Production of Comtest products is executed under tight quality control according to ISO 9001:2008 and ISO 14001:2004.





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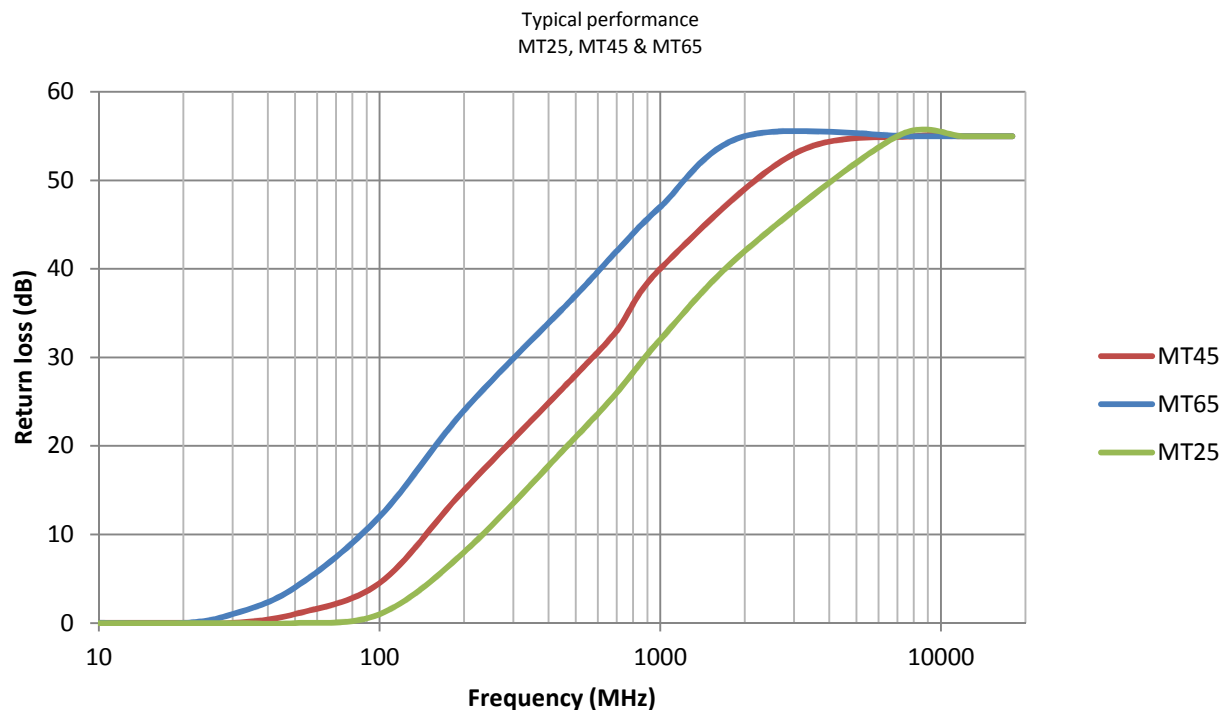
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Specifications of the microwave absorbers:

Specification	Description
Material	Closed-cell polystyrene
Dimensions	1200*600*450mm (height)*
Weight	7,36 Kg / m ² **
Color	Dark Grey
Humidity resistance	No deterioration from moisture
Product life time	>40 years
Power Handling	1500 W/m ²
Frequency range	70 MHz – 110 GHz
Fire retardancy	ISO 11925-2 class E / DIN 4102 class B2
Clean room spec.	class 10.000 / ISO14644-1 class 4
White end cap	Upon request, 2 each.
Reach compliant	Yes
ROHS compliant	Yes

*: MT45. / **: MT45.

Performance (normal incidence)



MIL STD 461 / CISPR 25 applications

The MT65 is also suited for typical chamber solutions such as MIL STD, Tempest test chambers and CISPR-25 chambers.

Warranty

Values shown are based on testing of laboratory test specimens and represent data that falls within the normal range purpose. These values are not intended for use in establishing maximum, minimum or ranges of values for specification purposes. Any determination of the suitability of the material or any use contemplated by the user and the manner of such use is the sole responsibility of the user who must assure that the material as subsequently processed meets the needs of this particular product or use. The given information is based on data and knowledge considered to be true and accurate and is offered for the user's consideration, investigation and verification but we don't warrant the results to be obtained.

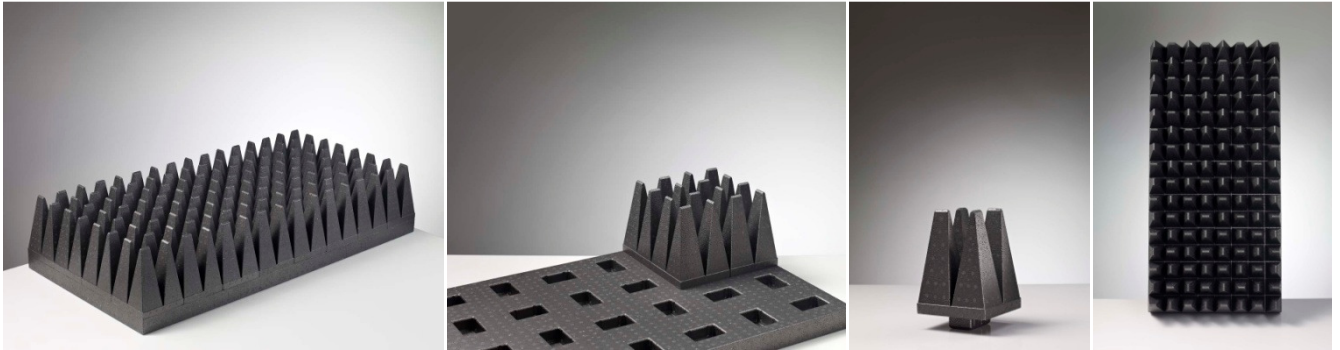


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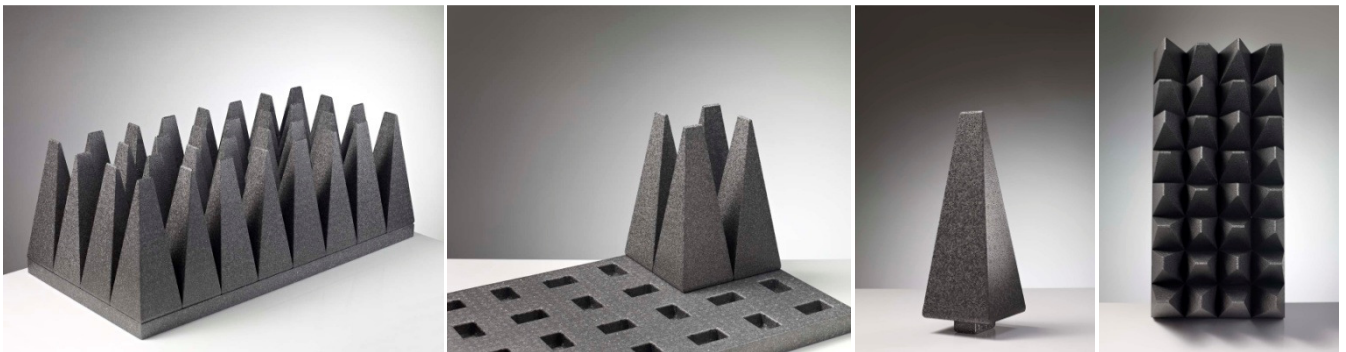
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MT25



MT45



MT65



Telemeter Electronic

Deutschland

Telemeter Electronic GmbH
Joseph-Gänsler-Straße 10
86609 Donauwörth
Telefon +49 906 70693-0
Telefax +49 906 70693-50
info@telemeter.de
www.telemeter.info

Schweiz

Telemeter Electronic GmbH
Romanshorne Strasse 117
8280 Kreuzlingen
Telefon +41 71 6992020
Telefax +41 71 6992024
info@telemeter.ch
www.telemeter.info

Tschechische Republik

Telemeter Electronic s.r.o.
České Vrbné 2364
370 11 České Budějovice
Telefon +420 38 5310637
Telefax +420 38 5510124
info@telemeter.cz
www.telemeter.info