

# TC-5810A

## RF & Audio Shield Box

### Data Sheet



ООО «4TECT»

Телефон: +7 (499) 685-4444

info@4test.ru

[www.4test.ru](http://www.4test.ru)





## Features

- Reliable High RF Shielding up to 6 GHz
- High Performance RF & Audio Multi-Absorber
- Specifically designed for various types of Large Device
- EMI filters on all Data ports
- Easy Opening/Closing of Door
- Customizable Data connections

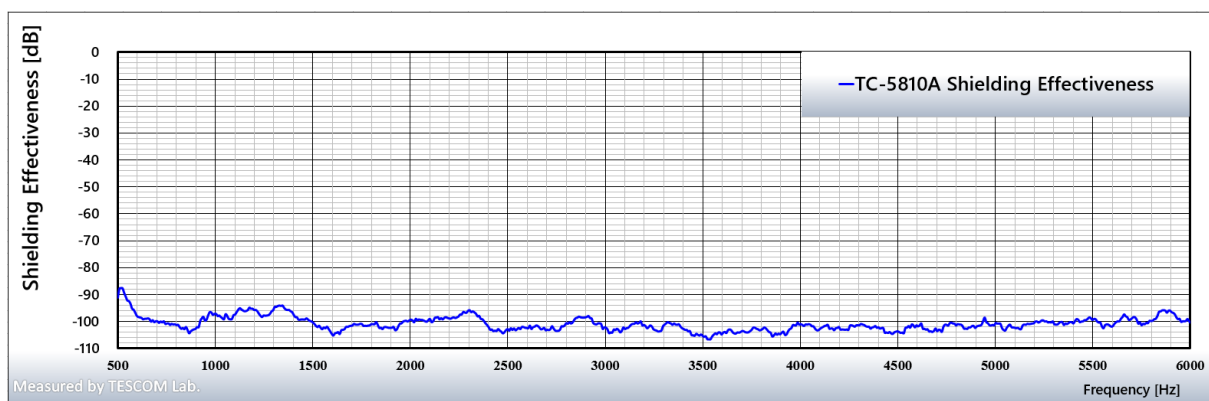
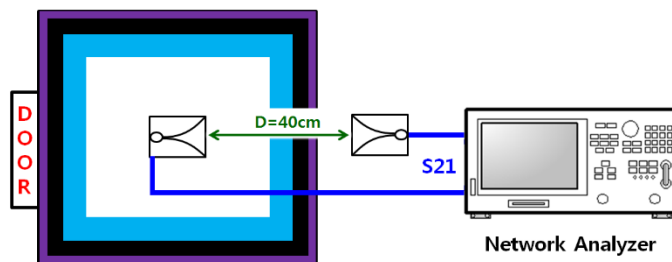
## Mechanical Specifications

<b>RF Connectors without module</b>	Two (2) N (f) outside and SMA (f) inside
<b>Dimensions</b>	
Inside	445 (W) x 547 (D) x 445 (H) mm
Outside	690 (W) x 856 (D) x 768 (H) mm
Door	439 (W) x 439 (H) mm
<b>Weight</b>	90 kg
<b>*Packing</b>	
Size	896 (W) x 1016 (D) x 876 (H) mm
Weight	Approx. 105 kg

\* The size or weight of a package may vary depending on how the product is packed.

## Typical RF Shielding

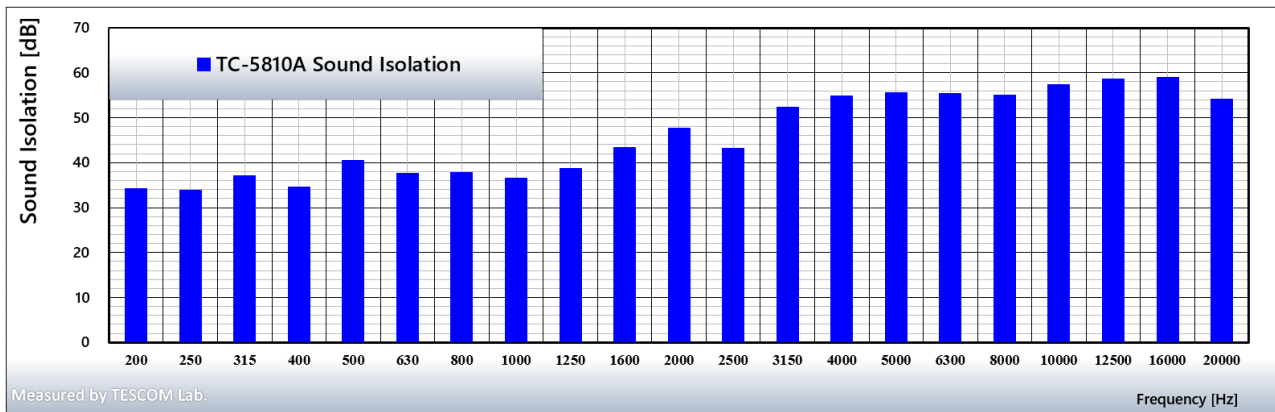
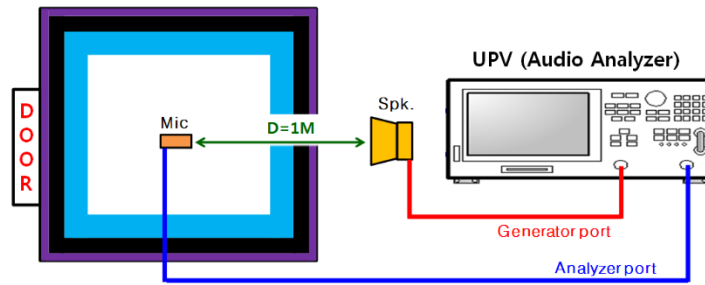
The shield effectiveness below is measured when the blank panel is mounted; other I/O interface panel results a different shielding effectiveness of the shield box.



Frequency	Shielding effectiveness [dB]
100 to 2000 MHz	> 70 dB
2000 to 3000 MHz	> 70 dB
3000 to 6000 MHz	> 70 dB

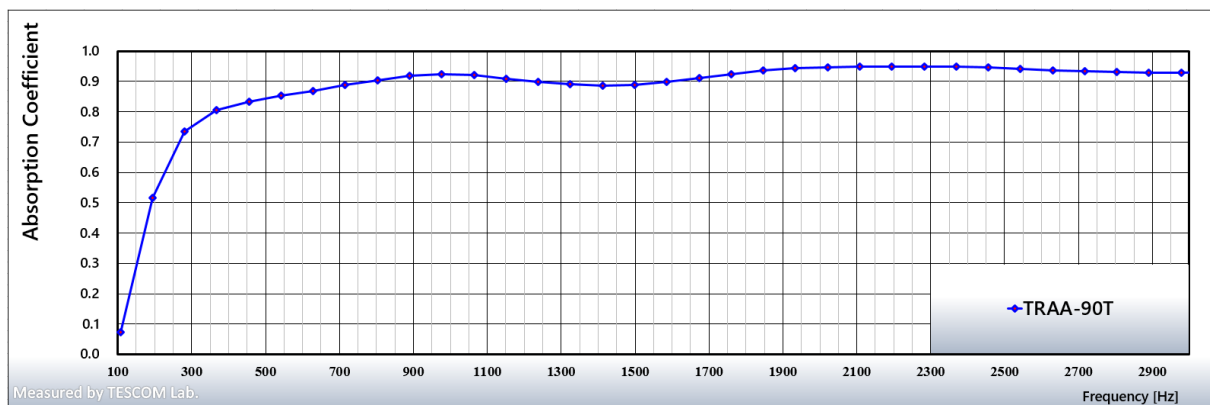
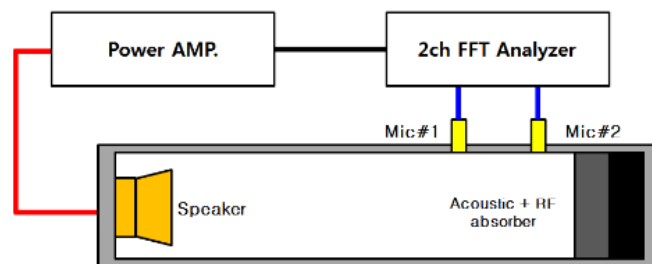
## Typical Sound Isolation

The sound isolation below is measured when the blank panel is mounted.



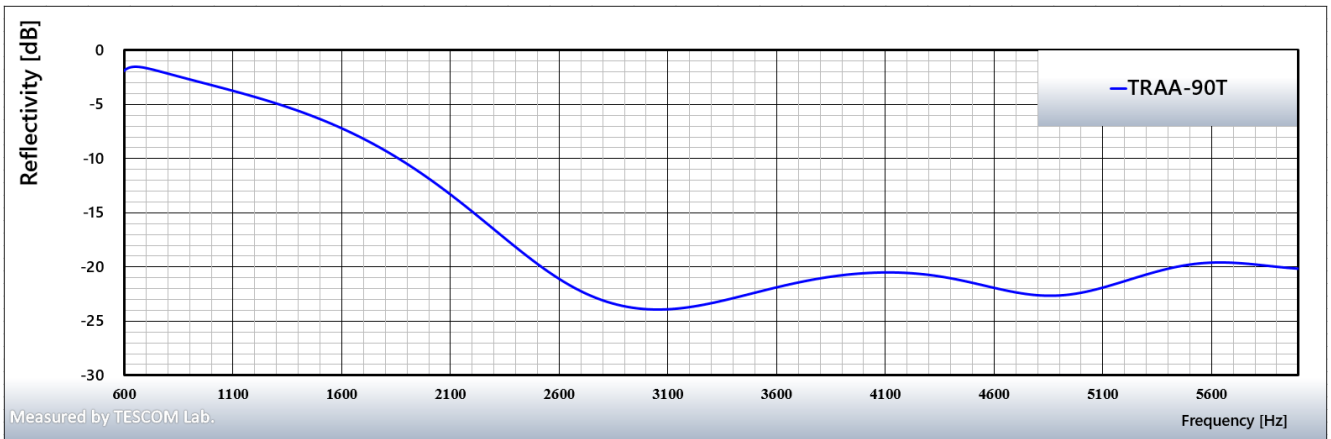
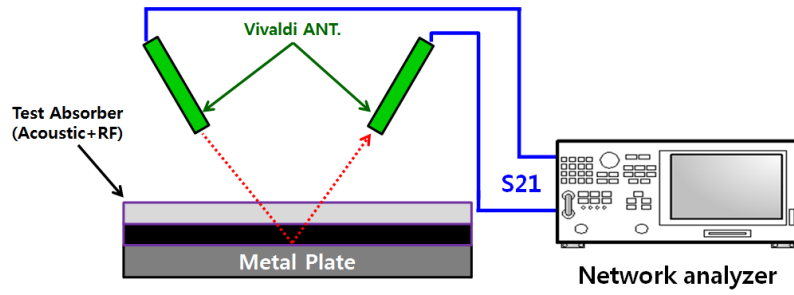
## Audio Absorption Performance

(ISO 10534-2: Impedance Tube Method)



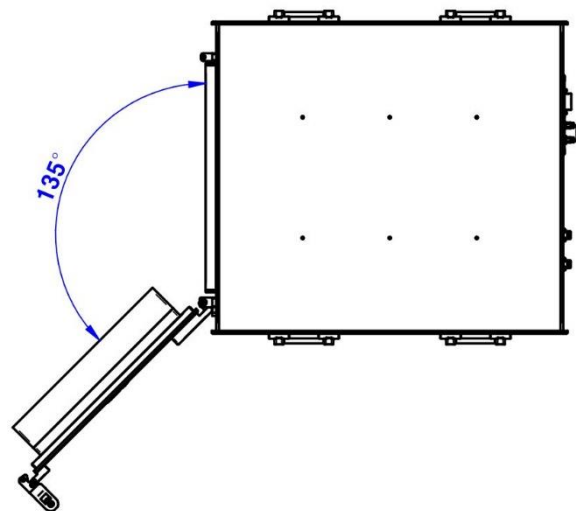
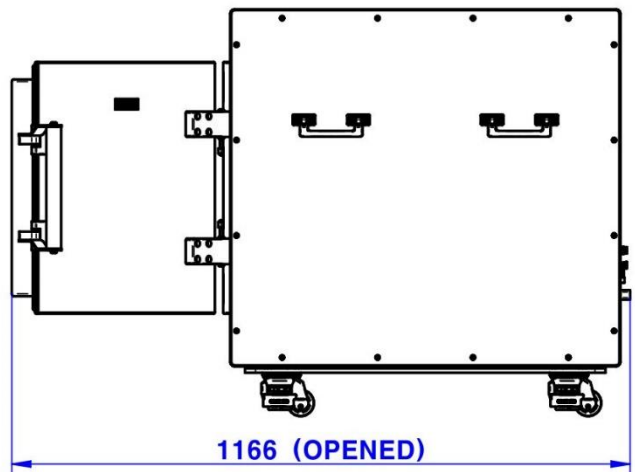
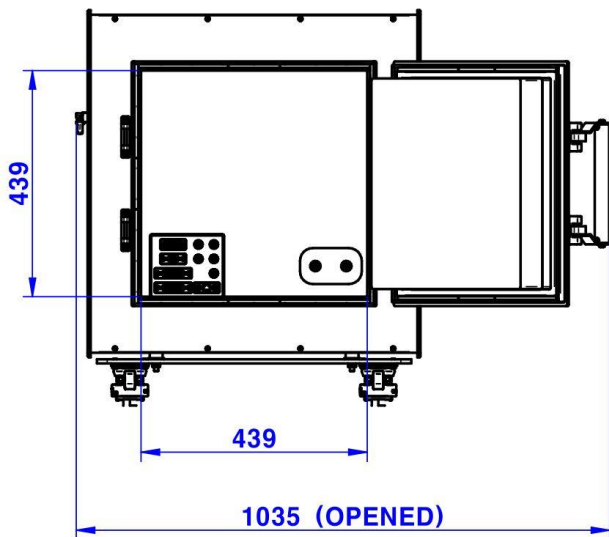
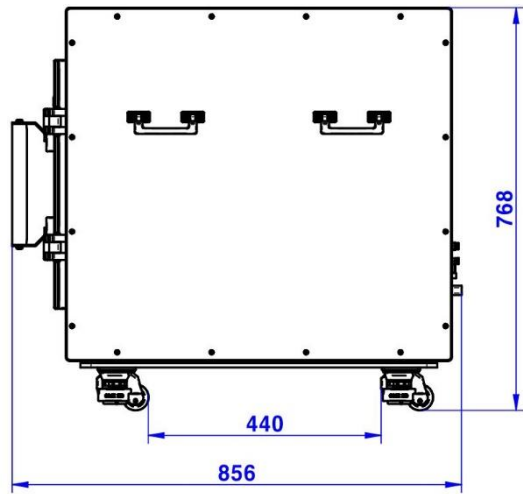
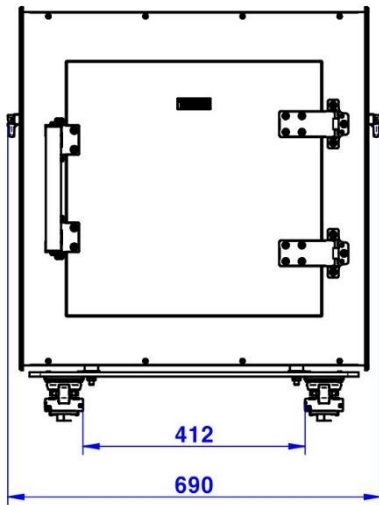
# RF Absorber Performance

(NRL Arch Method)



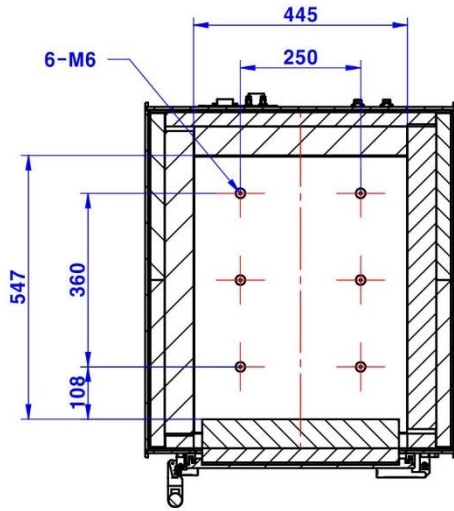
## Outer Dimensions

TC-5810A Outside Dimensions: 690 (W) x 856 (D) x 768 (H) mm

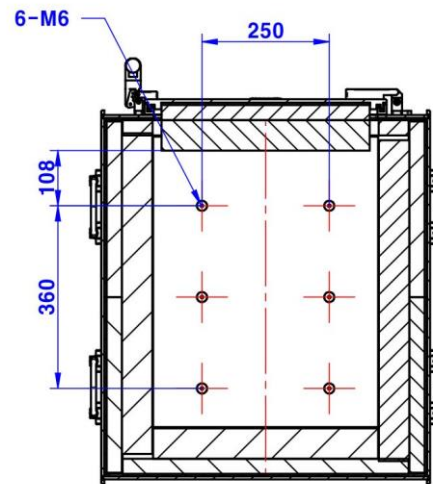


## Inner Dimensions

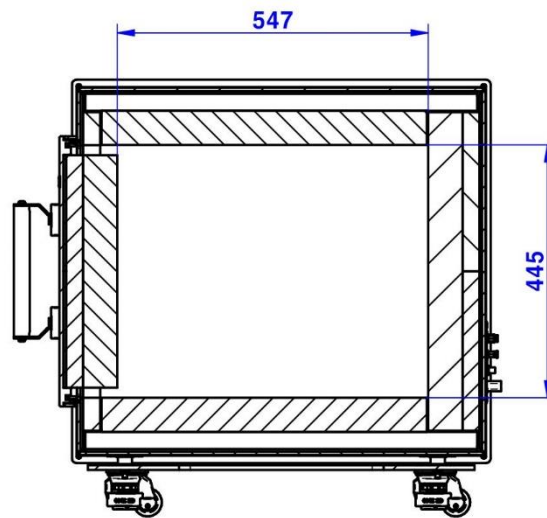
TC-5810A Inside Dimensions : 445 (W) x 547 (D) x 445 (H) mm



Bottom Inner View



Top Inner View



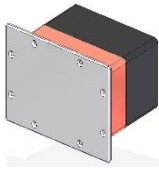
Side Inner View

## Ordering Information

Order Number	Description
TC-5810A	RF & Audio Shield Box (including accessories below) Test Report SS-402, N(m) – N(m), 1 m, 1 pc RG58, BNC(m) to BNC(m) cable 1 m, 1 pc (for customer delivery)

\*Depending on the voltage standard of each country, ventilation fans and their cables can be changed.

## I/O Interface Panels

I/O Interface Panel	Order Number	Configuration
	M5810A01A	Blank Module (Acoustic & RF Absorber + Rubber Sheet)

Data Interface Panel



## Custom I/O Interface Panels

I/O Filters	Code	Description	*Typical Shielding
	<b>3409-0009-1</b> DB25, 1000pF pi Filter	3 Mbps / 100 VDC 5 Amps max	>70 dB from 0.5 to 2 GHz >80 dB from 2 to 3 GHz >70 dB from 3 to 6 GHz
	<b>3409-0014-1</b> DB25, 100pF pi Filter	10 Mbps / 100 VDC 5 Amps max	>50 dB from 0.5 to 2 GHz >60 dB from 2 to 3 GHz >60 dB from 3 to 6 GHz
	<b>3409-0008-1</b> DB9, 1000pF pi Filter	3 Mbps / 100 VDC 5 Amps max	>70 dB from 0.5 to 2 GHz >80 dB from 2 to 3 GHz >70 dB from 3 to 6 GHz
	<b>3409-0010-1</b> DB9, 100pF pi Filter	10 Mbps / 100 VDC 5 Amps max	>50 dB from 0.5 to 2 GHz >60 dB from 2 to 3 GHz >60 dB from 3 to 6 GHz
	<b>3409-0018A-3</b> USB 2.0 Filter	480 Mbps / 5 V, 500 mA Max Current: 5 A	>60 dB from 0.5 to 2 GHz >70 dB from 2 to 3 GHz >70 dB from 3 to 6 GHz
	<b>3409-0042A-2</b> USB 3.0 Filter (Active)	5000 Mbps/ 5 V, 600 mA Max Current: 1.5 A	>80 dB from 0.5 to 2 GHz >80 dB from 2 to 3 GHz >75 dB from 3 to 6 GHz
	<b>3409-0046A</b> USB 3.2 Gen 2 Type C Adapter (Active)	10 Gbps / 4 - 22V Max Current: 5 A	>70 dB from 0.5 to 2 GHz >70 dB from 2 to 3 GHz >70 dB from 3 to 6 GHz
	<b>3904-0296A</b> RJ-45 Filter	1 Gbit/s Copper-Line Ethernet (1000 BASE-T)	>60 dB from 0.5 to 2 GHz >70 dB from 2 to 3 GHz >70 dB from 3 to 6 GHz
	<b>3406-0004A</b> DC Power Adaptor	50 VDC 3 Amps max	>70 dB from 0.5 to 2 GHz >80 dB from 2 to 3 GHz >80 dB from 3 to 6 GHz
	<b>3406-0005A</b> (Black) <b>3406-0006A</b> (White) DC Power Adaptor (Banana Jack Type)	50 VDC 10 Amps max	>70 dB from 0.5 to 2 GHz >80 dB from 2 to 3 GHz >80 dB from 3 to 6 GHz
	<b>3103-0009A</b> AC Power Adaptor	250 VAC 7 Amps max	>70 dB from 0.5 to 2 GHz >80 dB from 2 to 3 GHz >80 dB from 3 to 6 GHz
	<b>3408-0038</b> RF, N-SMA Connector	From DC to 6 GHz 50 Ω / 1.15 max	N/A
	<b>408-0039</b> RF, SMA-SMA Connector	From DC to 8 GHz 50 Ω / 1.15 max	N/A

# 4TECT

ООО «4TECT»

Телефон: +7 (499) 685-4444

info@4test.ru

www.4test.ru

\*Typical Shielding is the estimated value of shielding effect with corresponding interface. The data above are measured by Tescom standards. They may differ depending on measuring method and environment. The data above are under the condition that cables are not connected to each filter. When cables are connected, the shielding performance can be affected.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

