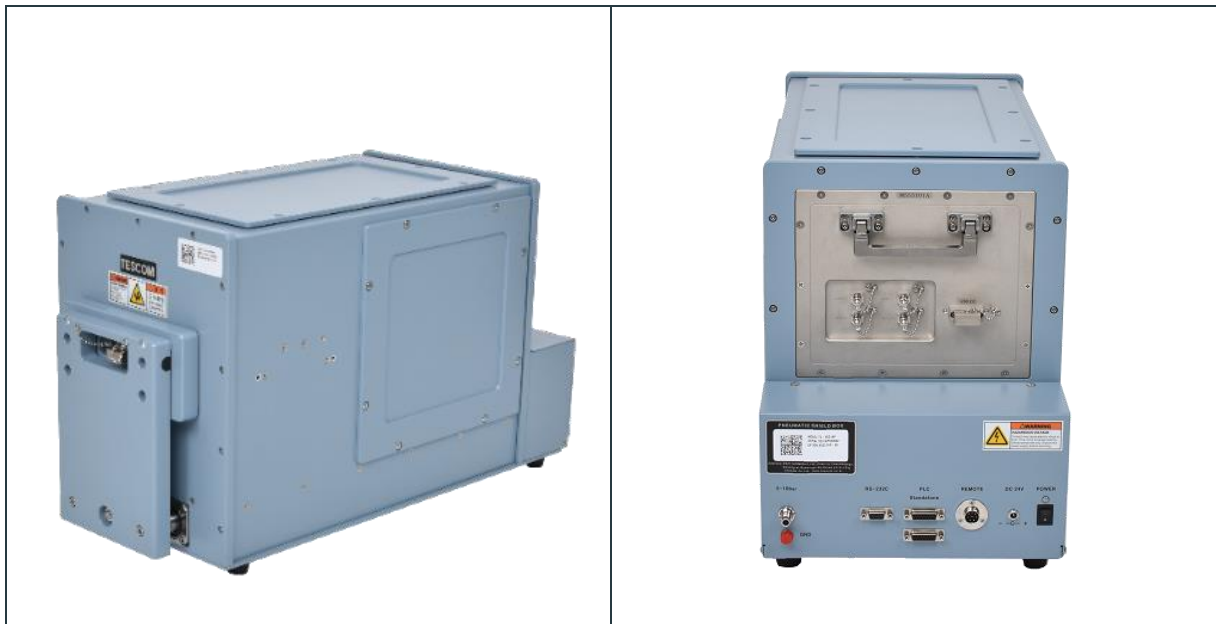


TC-5531AP

mmWave Pneumatic Shield Box



Features

- Specifically designed for Millimeter wave test
- Reliable High RF Shielding from 18 GHz to 67 GHz
- Pneumatic control of lid open-close and optional test fixture motions
- EMI filters on all Data ports
- Customizable Data connections
- RS-232C Remote Control

Specifications

Mechanical Specifications

[TC-5531AP]

Dimension

Inside	206(W) x 435(D) x 230(H) mm
Outside	290 (W) x 683(D) x 390(H) mm
Door	176(W) x 70(H) mm
Door stroke	318 mm

Weight	approx. 31 kg
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*Packing

Size	800(W) x 540(D) x 450(H) mm
Weight	approx. 35 kg

* The size or weight of a package may vary on how to pack a package.

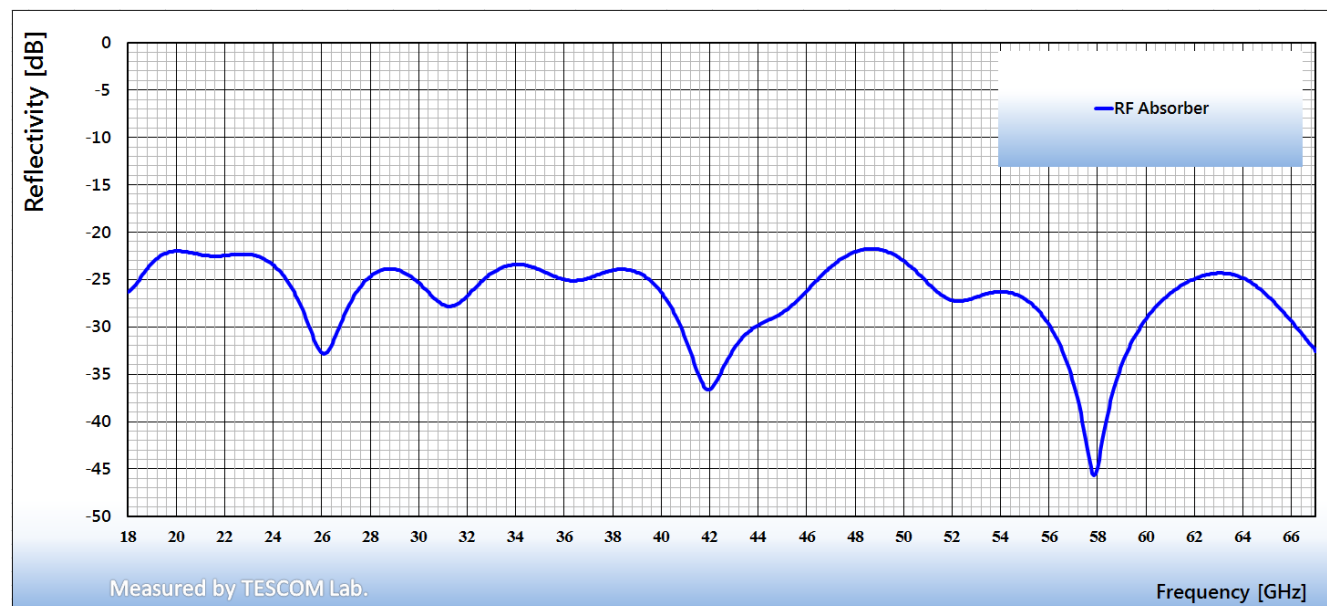
Typical RF Shielding

It is measured with Blank panels. Shielding performance may vary different depending on I/O interface.

18 to 67 GHz	> 60 dB
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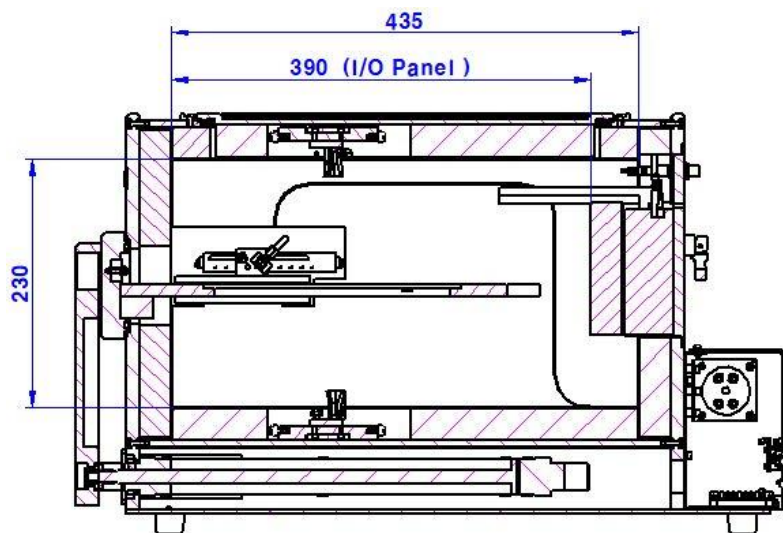
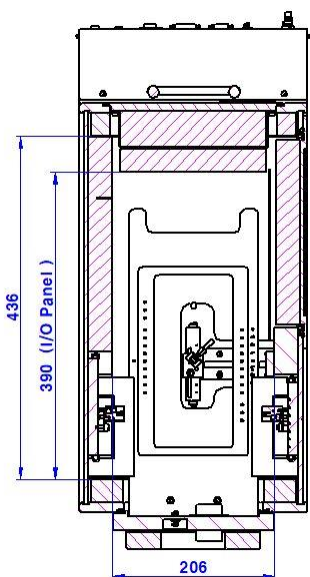
Absorber Reflectivity

Being measured based on the metal plate (0 dB @ 18 GHz to 67 GHz), and measures the value that is reduced when the

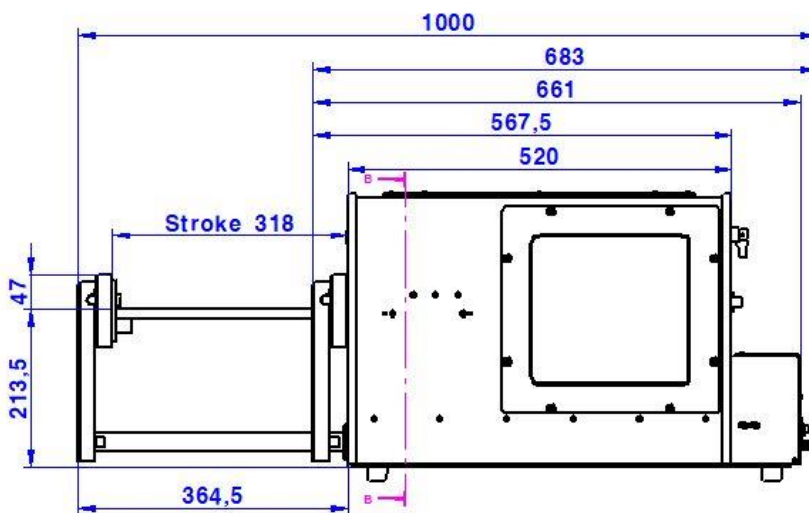
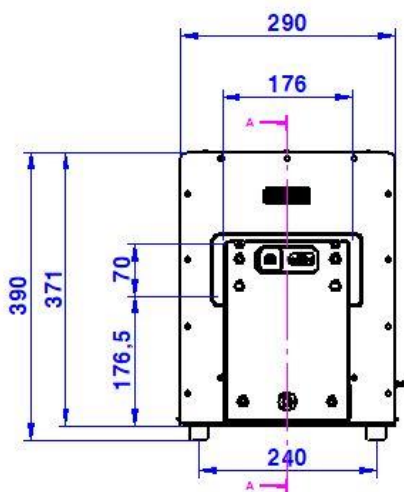


Dimensions

- TC-5531AP Inner Dimension (WxDxH) : 206(W) x 435(D) x 230(H) mm
- Including I/O Panel (WxDxH) : 206(W) x 390 (D) x 230(H) mm



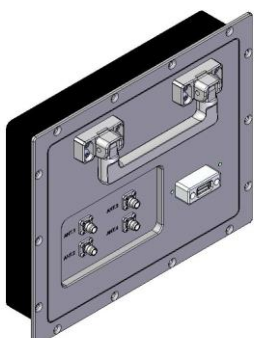
- TC-5531AP Outer Dimension (WxDxH) : 290 (W) x 683(D) x 390(H) mm



Ordering Information

Order Number	Description
TC-5531AP	Shield Box (including accessories below)
	Test Report
	Air coupler, 1 pc
	Box Remote switch Cable 1 pc
	Switching power supply, 1pc
	Data, DB9(p)-DB9(s) 1M, 1 pc
	USB A(p)-USB A(p) 4C. 1pc
	Power cable 220V ,1 pc
	DB15(p)-15(p) 0.5M (Standalone), 1pc

Pre-Configured I/O Interface Panel

I/O Interface Panel	Order Number	Configuration
	M5531AP01A	- four(4) 2.92mm(f) outside and 2.92mm (f) inside - one(1) USB 2.0 outside and inside

Data Interface Panel

Optional RF Connector

I/O Interface	Description / Order Number	Frequency Range / Impedance / V.S.W.R
	RF, 2.92 mm Thru Adapter / 3407-0024	From DC to 40 GHz, 50 Ω, 1.3 max
	RF, 2.4 mm Thru Adapter / 3407-0027	From DC to 50 GHz, 50 Ω, 1.3 max
	RF, 1.85 Thru Adapter / 3412-0001	From DC to 67 GHz, 50 Ω, 1.5 max

Custom I/O Interface Panel

- Customized I/O Interface Panel is available by selecting below I/O interfaces and combine.
Please contact Tescom sales team or your local distributor.

I/O Interface	Description / Order Number	Typical Data Rate / Line Voltage	*Typical Shielding
	DB25, 1000pF pi Filter / 3409-0009-1	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
	DB25, 100pF pi Filter / 3409-0014-1	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
	DB9, 1000pF pi Filter / 3409-0008-1	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
	DB9, 100pF pi Filter / 3409-0010-1	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
	USB 2.0 Filter / 3409-0018A-3	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
	USB 3.0 Filter(Active) / 3409-0042A-2	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
	RJ-45 Filter / 3409-0022A	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
	DC Power Adaptor / 3406-0004A	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
	DC Power Adaptor (Banana Jack Type) / 3406-0005A, 3406-0006A	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
	AC Power Adaptor / 3103-0009A	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

- Each shielding effectiveness is measured when each I/O interface panel, which is shown above, is mounted.
- Above data was measured by Tescom, The Shielding Effectiveness might be different based on the measuring method and condition.
- This data has been measured under the condition that the cables are not connected to each filters. When the cables are connected it can affect the shielding performance.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

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