

TC-5955AP Pneumatic Shield Box



Features

- Reliable High RF Shielding up to 6 GHz
- Designed for long life
- Specifically designed for various types of mobile phones
- Pneumatic control of lid open-close
- Absorbing materials for stable measurement results
- EMI filters on all data ports and power line
- Remote operation by RS-232C

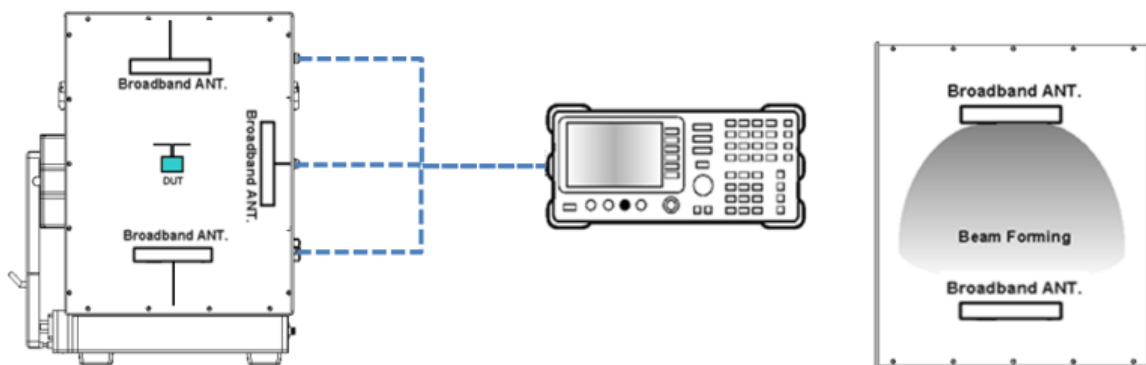
Introduction

TC-5955AP, Pneumatic Shield box generates the Electro-Magnetic field for testing small RF devices such as Mobile Phones, Bluetooth, WLAN, Zigbee, etc. An external test signal applies through the input port of TC-5955AP generates a consistent and predictable test field inside.

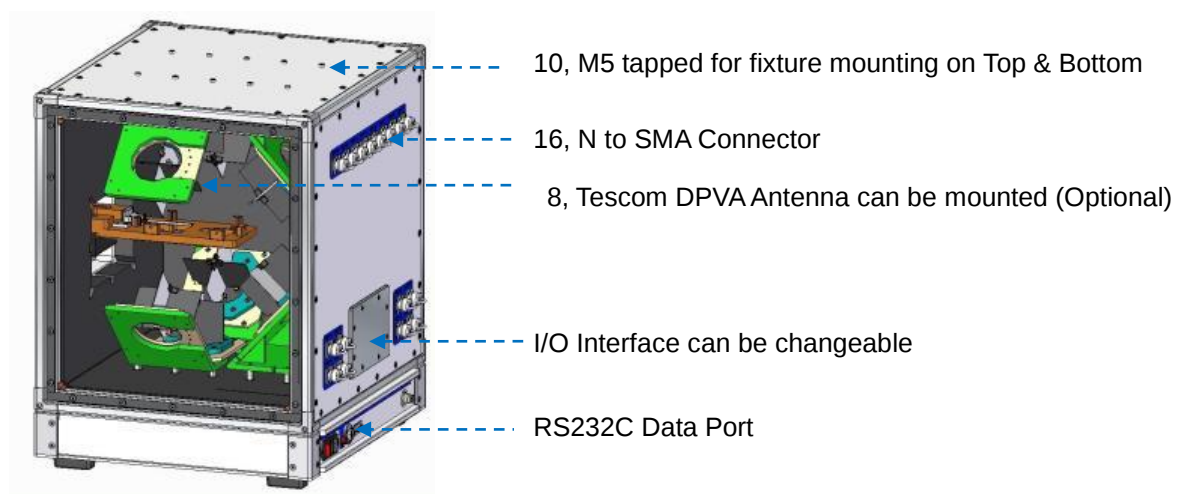
The unique compact and economical design is optimized for medium accuracy measurements.

Applications

- Receiver sensitivity testing, Transmitter radiated power testing.
- Mobile Phones, WLAN, Bluetooth, LTE, GNSS.



Test Configuration



Basic Features (Cross-Section)

Specifications

Mechanical Specification

Basic RF connector	16, N(f) outside to SMA(f) inside
Basic Data connector	None
Remote control	RS-232C, Dual Remote Switch
Air connection	
Main connection	6 mm OD hose, one-touch fitting
Input air pressure	5 to 10 bar
Dimension	
Outside	534(W) x 526(D) x 583(H) mm Door Closed, 786(D) mm Door Open
Door Size	176(W) x 130(H) mm
Door Stroke (Open/Close)	260 mm
Weight	approx. 39 kg
*Packing	
Size	680 (W) x 640(D) x 730(H) mm
Weight	approx. 46 kg

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

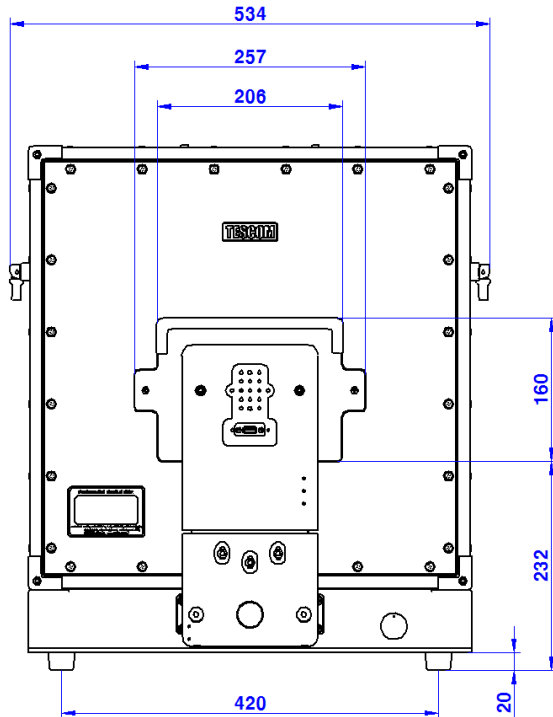
Typical RF Shielding

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.

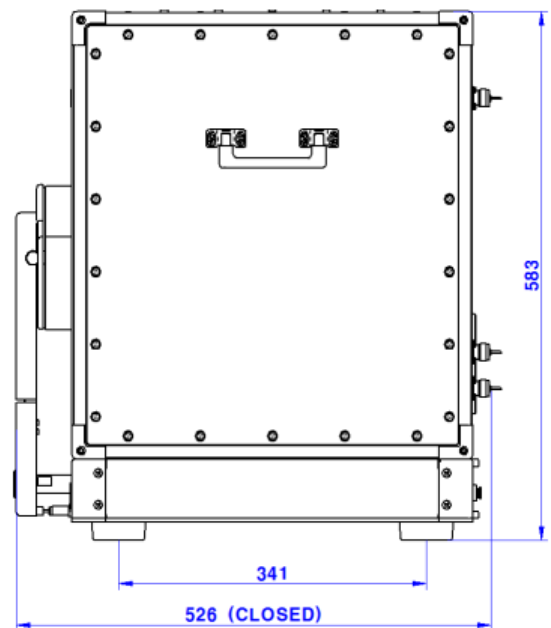
100 to 2000 MHz	> 60 dB
2000 to 3000 MHz	> 60 dB
3000 to 6000 MHz	> 60 dB

Dimensions

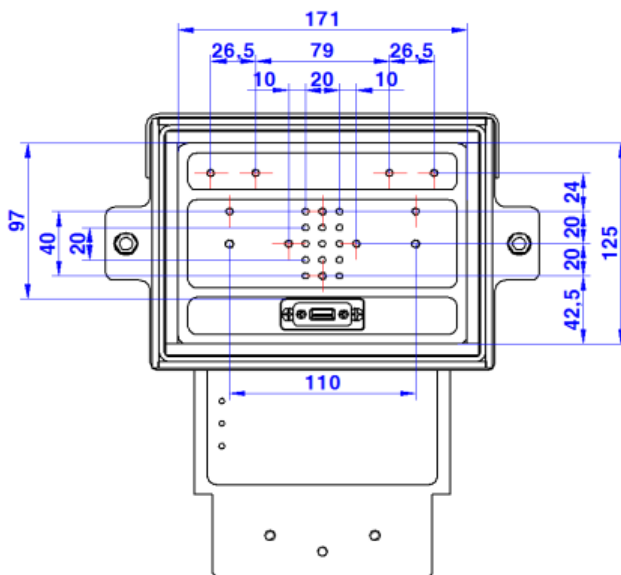
- TC-5955AP Outer Dimension (WxDxH): 534(W) x 526(D) x 583(H) mm



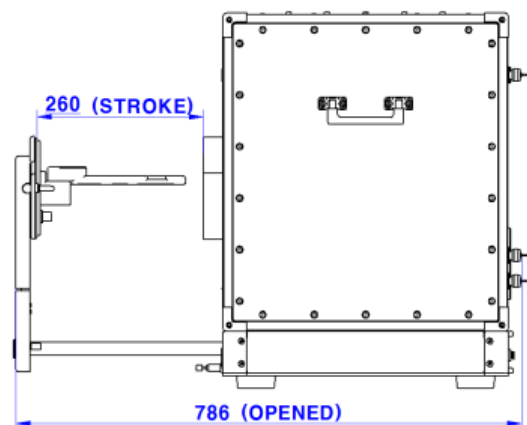
Front View



Side View(closed)

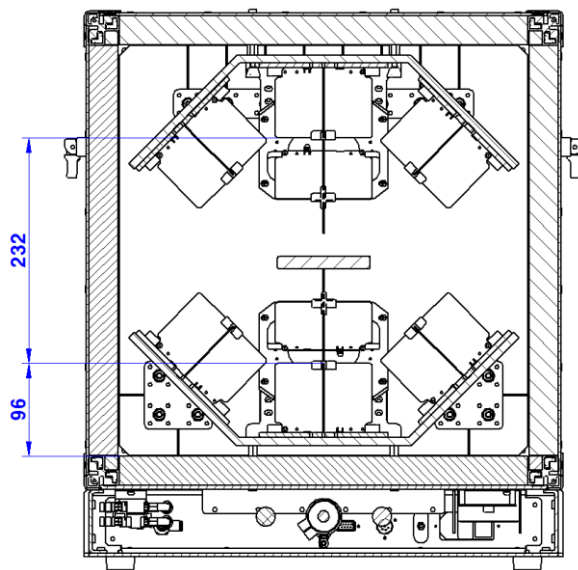


Door View

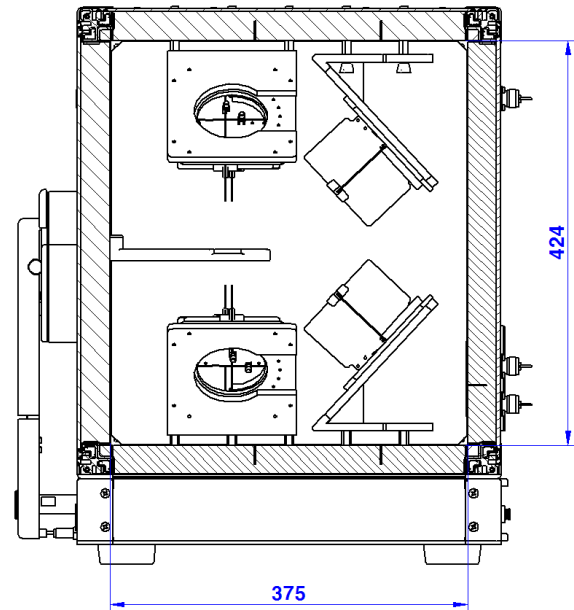


Side View(opened)

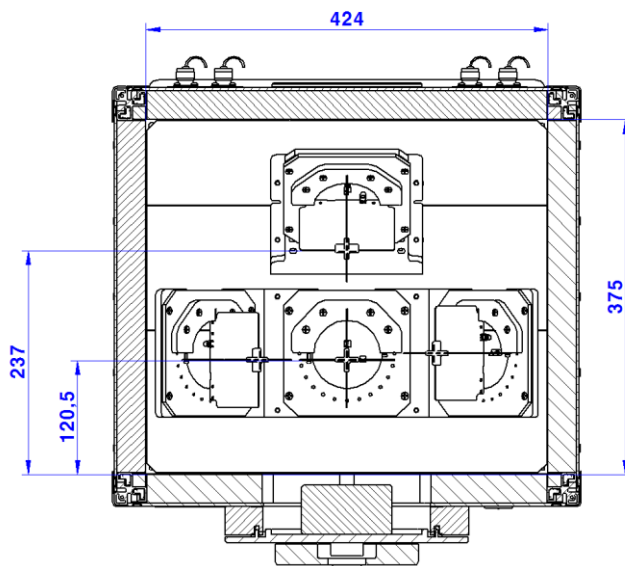
- TC-5955AP Inner Dimension (WxDxH): 424(W) x 375(D) x 424(H)



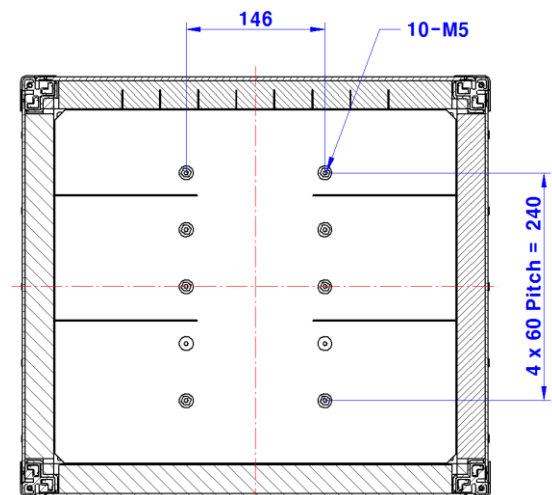
Front View



Side View



Bottom View (Ant. Mounted)



Top View (Ant. Removed)

Ordering Information

Order Number	Description
TC-5955AP	Pneumatic Shield Box (including accessories below)
	Test Report
	SS402, N(m) to N(m) cable, 2 m, 1 pcs
	Power Cable, 110 V, 1 pc
	Remote Switch, 2 m, 1 pc

Pre-Configured I/O Interface Panel

I/O Interface Panel	Order Number	Configuration
	M5970D01A	• Blank module (Absorber)

Data Interface Panel

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

I/O Interface	Description / Order Number	Frequency Range / Impedance / V.S.W.R
	RF, N-SMA Connector / 3408-0038	From DC to 6 GHz / 50 Ω / 1.15 max
	RF, SMA-SMA Connector / 3408-0039	From DC to 8 GHz / 50 Ω / 1.15 max

- 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