

# TC-5924AP Pneumatic Shield Box



## Features

- High RF Shielding
- Pneumatic control of lid open-close and optional test fixture motions
- EMI filters on all Data and DC lines
- Easily customizable to meet various test needs
- RS-232C Remote Control

## Specifications

### Mechanical Specifications

<b>RF Connectors without I/O interface panel</b>	two(2) N(f) outside and SMA(f) inside
<b>Line voltage</b>	100-240 VAC, 50/60 Hz, 15watt max.
<b>Remote control</b>	RS-232C, 3 wire, DB9(s)
<b>Air connection</b>	
Main connector	6 mm OD hose, one-touch push-on fitting
Input air pressure	5 to 10 bar
<b>Dimension</b>	
Inside	270(W) x 287(D) x 102(H) mm
Outside	341(W) x 401(D) x 208(H) mm, door closed. 606(D) mm, door open.
<b>Weight</b>	approx. 20 kg
<b>*Packing</b>	
Size	520(W) x 550(D) x 340(H) mm
Weight	approx. 25 kg

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

### Typical RF Shielding

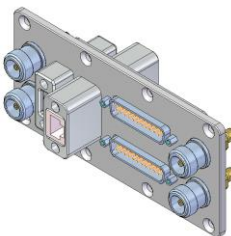
The shield effectiveness below is measured when the blank panel is mounted; other I/O interface panel results a different shielding effectiveness of the shield box.

Frequency	Shielding effectiveness (dB)
100 to 2000 MHz	> 80 dB
2000 to 3000 MHz	> 80 dB
3000 to 6000 MHz	> 70 dB

## Ordering Information

Order Number	Description
	<b>Pneumatic Shield Box (including accessories below)</b>
	Test Report
	RF Cable, SS-402, N(m) to N(m) 1 m, 1 pc
	Data Cable, DB9(p) to DB9(s) cable 2 m, 1 pc
	Power Cable, 220 V, 1 pc
	Box Remote Switch Cable, 3 m, 1 pc
	Air Coupler, 1 pc
TC-5924AP	

## Pre-Configured I/O Interface Panel



I/O Interface Panel	Order Number	Configuration
	M591059A	<ul style="list-style-type: none"> <li>Two(2) DB25(p) outside and DB25(s) inside, 100 pF Pi filter</li> <li>One(1) USB 2.0 outside and inside</li> <li>One(1) RJ-45 outside and inside</li> <li>Four(4) N(f) outside and SMA(f) inside</li> </ul>



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