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 ports and power lines
- Easily customizable to suit various test needs
- RS-232C remote control

TESCOM

Specifications

Mechanical Specifications

Basic RF Connector	Two(2) N(f) outside and SMA(f) inside
Line Voltage	100-240 VAC, 50/60 Hz, 15watt max.
Remote Control	RS-232C, 3 wire, DB9(s)
Air Connection	
Main Connector	6 mm OD hose, one-touch push-on fitting
Input Air Pressure	5 to 10 bar
Dimensions	
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.
Weight	Approx. 20 kg
***Packing**	
Size	520(W) x 550(D) x 340(H) mm
Weight	Approx. 25 kg

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

Typical RF Shielding

The shielding effectiveness below is measured with blank panels mounted. Other I/O interface panel may result in different shielding effectiveness.

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
TC-5924AP	**Pneumatic Shield Box (including accessories below)** 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

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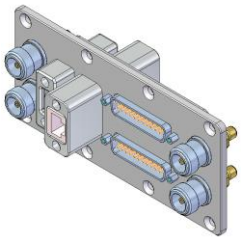
Pre-Configured I/O Interface Panel

I/O Interface Panel	Order Number	Configuration
 Data Interface Panel	M591059A	• Two(2) DB25(p) outside and DB25(s) inside, 100 pF pi filter • One(1) USB 2.0 outside and inside • One(1) **RJ-45 outside and inside** • Four(4) **N(f) outside and SMA(f) inside**

Custom I/O Interface Panel

- Customized I/O interface panel is available by selecting and arranging I/O interfaces below. 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 3.1 Gen 1 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

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	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

- ***Typical Shielding** is an estimated value with I/O interface applied.
- The data above were measured by TESCOM standards, and they may be different depending on the measuring method and environment.
- Each shielding effectiveness is measured without any cable, so it will be likely affected when a cable is connected. Also, it may vary depending on the type of cable.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

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