

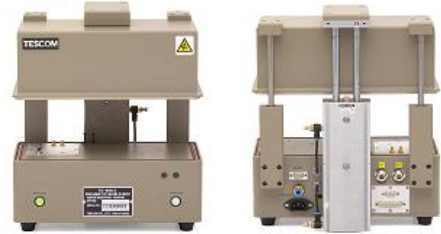
TC-5951A/5952B Pneumatic Shield Box

Application

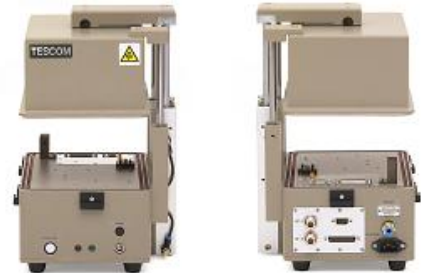
TC-5951A/5952B Pneumatic Shield Box provides an efficient RF isolated test environment for the manufacturing of mobile phones and PCB assemblies.

Features

- Reliable High RF shielding up to 2.5GHz owing to simple up-down lid motion
- Pneumatic control of lid open-close and optional automatic test fixture motions
- EMI filters on all data ports and power line
- Manual or remote operation (RS-232C)
- Modular I/O design for possible customization of data and RF connection
- Fixture control air outputs for custom test fixture
- Red and Green LED's for Pass/Fail indication
- Dual pressure control and Lid Down Sensor for safety
- TC-5951A ; Wider side front
 - Dual open/close switch for safety.
 - The custom fixture option, F59422A allows manual connection, so it is efficient for small quantity batch production.
- TC-5952B ; Narrower side front
 - Provide shield protective cover for safety.
 - The custom fixture option, F59421A/B allows auto connection, so it is efficient for mass production.
 - CE compliant : EN 292-1:1991, EN 292-2:1991/A1:1995, EN 983:1996, EN 1050:1996, EN 60204-1:1997



TC-5951A front and rear



TC-5952B front and rear

Specification

- Shielding effectiveness : > 80 dB, from DC to 2.5 GHz, including connectors
- Input air pressure : 5 bar to 10 bar
- Main air connector : 6mm OD hose, one-touch push-on fitting
- Fixture control air connector : 4mm OD hose, one-touch push-on fitting
- Working space : 280(W) x 150(D) x 95(H) mm
- Dimension : 342(W) x 239(D) x 262(H) mm, lid closed. 410(H) mm, lid open
- Line voltage : 100 to 240 VAC, 50/60 Hz, 15 watt max.
- Data line capacity : 100 VDC, 3 Amps maximum
- Weight without optional test fixture : 12 kg
- Accessories supplied :
 - 4002-0002, RG223, N(m) to N(m) cable, 1m, 1pc.
 - 4003-0001, DB9(s) to DB9(s) RS-232C cable, 2m, 1pc.
 - 4003-0004, DB9(p) to DB9(s) cable, 1m, 1pc.
 - 4003-0005, DB25(p) to DB25(s) cable, 1m, 1pc.
 - Power cable, 1pc., Hand valve, 1pc.
 - Lid Stopper, 1pc., Safety Shield, 1pc. (TC-5952B only)

Lid Characteristic

- Long Life Up-Down design, typically 1,000,000 open/close cycle
- Lid speed Control Valve
- Dual Pressure : Lid close without air pressure
- Lid Down Sensor : Lid opens if the lid doesn't fully close within 2 sec.
- Initial Lid Position : Lid opens when the air is connected regardless of AC power
- Internal Electronic Cycle Counter (downloadable to PC thru RS-232C)

Electrical I/O

User Data I/O Connectors

- DB9(p) outside and DB9(s) inside, 1000pF Pi filter
- DB25(p) outside and DB25(s) inside, 1000pF Pi filter

RF connectors

- 2 N(f) outside and SMA(f) inside

Remote Control Connector

- RS-232C : DB9(p), 3wire



Connectors of TC-5951A



Connectors of TC-5952B

AC Line input

- IEC Type, Detachable

Test Fixture for TC-5951A/5952B

TC-5951A/5952B system with a custom fixture allows automation of most of the test processes. The fixture holds the device, brings it inside the shield box, makes test signal connections and returns the device to the starting position when the test is completed. Once the device is manually loaded on the DUT cradle and the serial number scanned, the rest of the test procedures can be automated. The custom fixture option, F59421A/B or F59422A may be ordered through Tescom by supplying the necessary device information and samples to help design and verification. Typically, every device has unique shape and electrical connections requiring mechanical and electrical customizations from its basic platform design.

Ordering Information

TC-5951A, Dual open/close switch, Wider side front

TC-5952B, Single open/close switch, Narrower side front. Clear plastic safety shield

5951-14, Handler Close Sensor Option, for 5951A only

5952-10, Wire Remote Open/Close Switch

5952-20, Switchable RF connection, RF Connector or Antenna Coupler

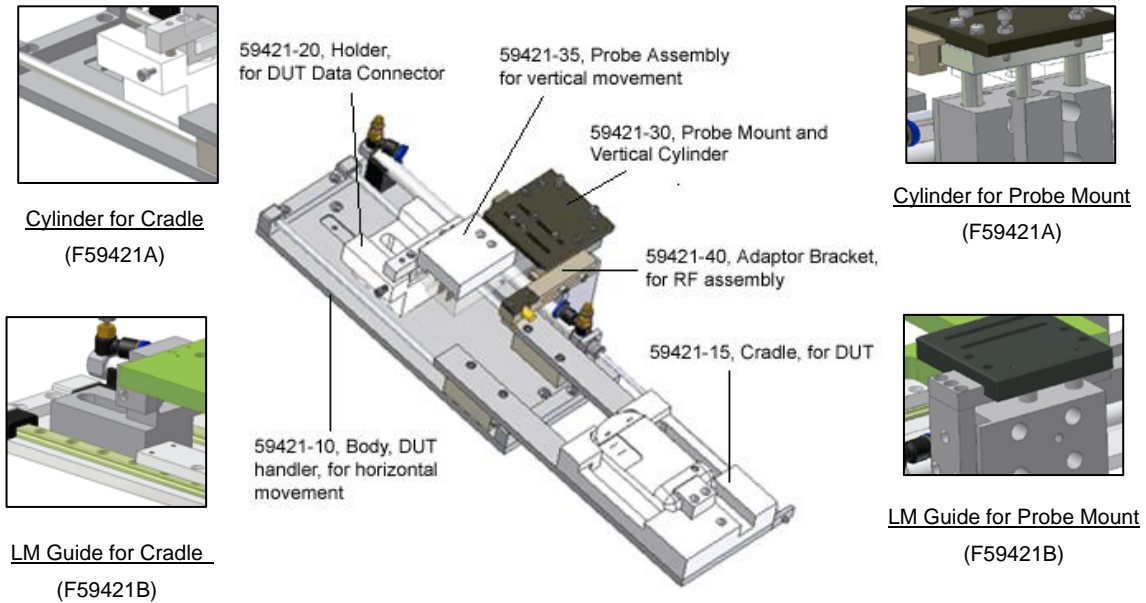
5952-80, Spare gasket Assy, set of 2pcs.

F59421A-MMM-XXXX-YY, Fixture for 5952B, fitted with ball bearing shaft

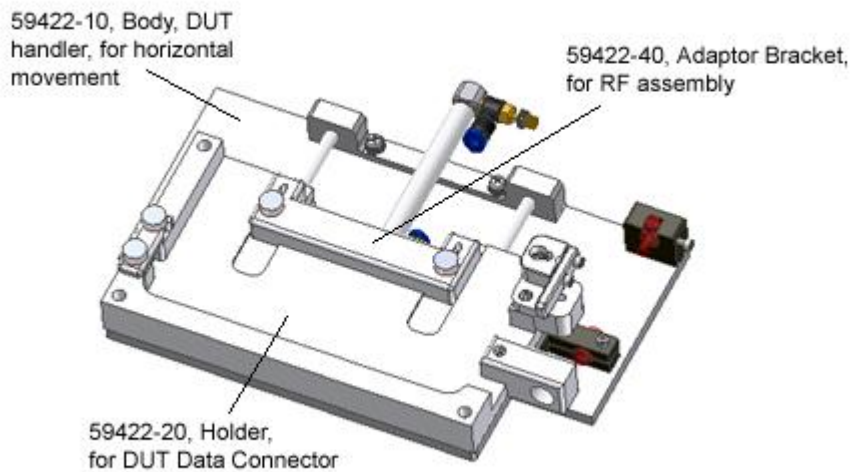
F59421B-MMM-XXXX-YY, Fixture for 5952B, fitted with LM (Linear Motion) Guide

F59422A-MMM-XXXX-YY, Fixture for 5951A

MMM-XXXX-YY is a unique fixture code that will be given by TESCOM.



View of F59421A/B fixture for TC-5952B



View of F59422A fixture for TC-5951A

Design Patent 240189 ; TC-5951A/5952B
 Patent Pending 283832 ; F59421A/B

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE