

TC-5915AP 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
- Red and Green LED's for Pass/Fail indication
- RS-232C Remote Control

Specifications

Mechanical Specifications

| Line voltage | |
|---|---|
| | DC 24 V, Max. 2 A |
| Remote control | |
| | RS-232C, 3 wire, DB9(s) |
| Air connection | |
| Main connector | 6 mm OD hose, one-touch push-on fitting |
| Fixture control connector | 4 mm OD hose, one-touch push-on fitting |
| Input air pressure | 5 to 10 bar |
| Dimension | |
| Inside | 220(W) x 280(D) x 170(H) mm |
| Outside | 324(W) x 432(D) x 252(H) mm, lid closed. 373(H) mm, lid open. |
| Weight | |
| | approx. 9 kg |
| *Packing | |
| Size | 460(W) x 528(D) x 335(H) mm |
| Weight | approx. 10 kg |
| *The size or weight of a package may vary on how to pack a package. | |

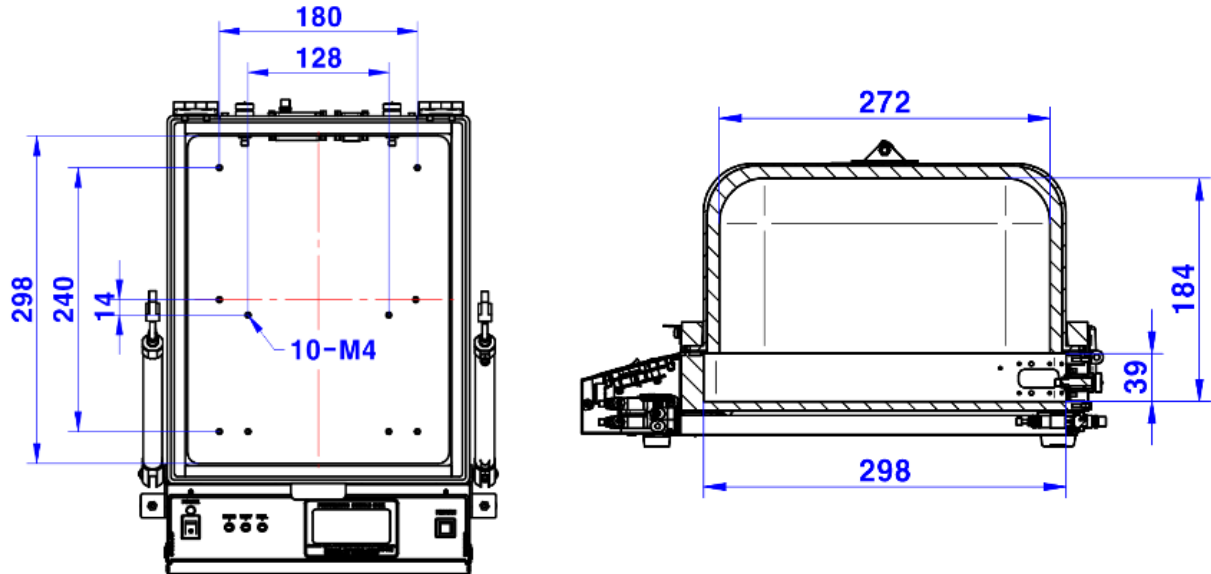
Typical RF Shielding

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

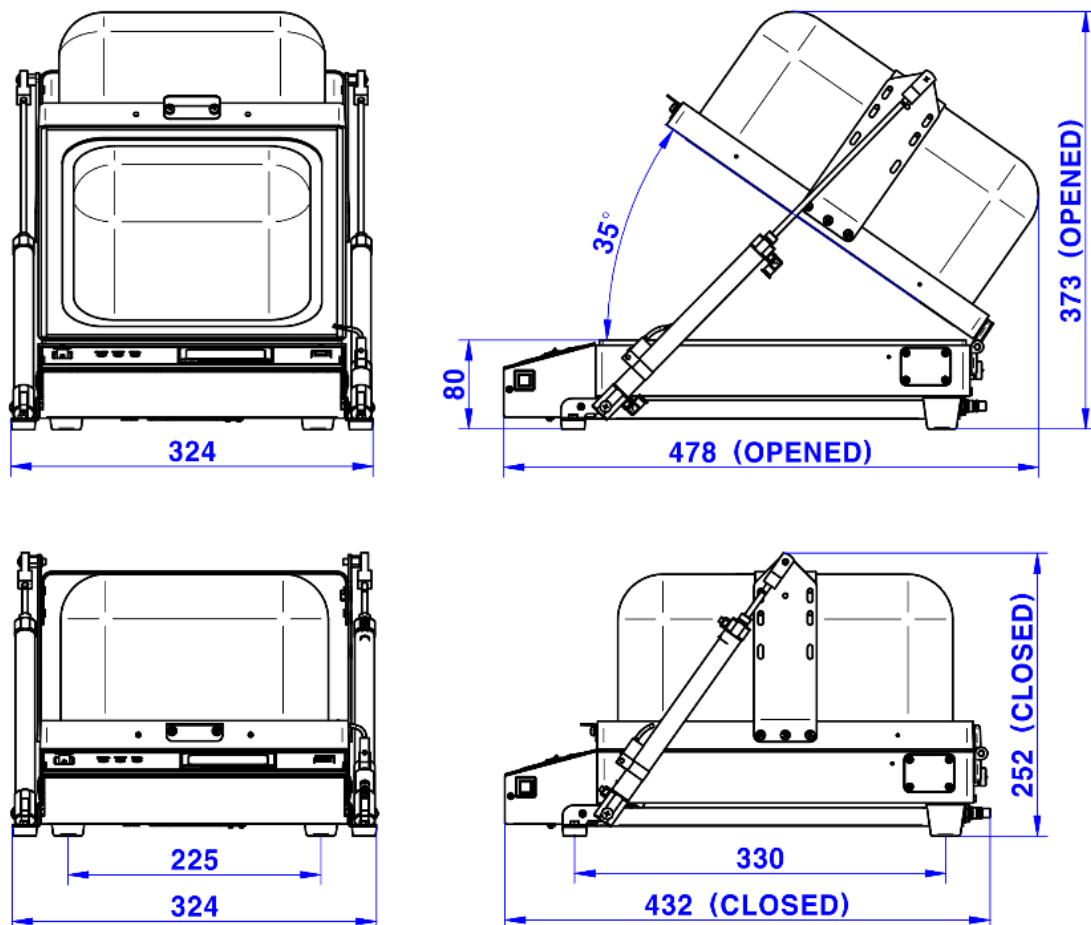
| Frequency | Shielding effectiveness (dB) |
|------------------|------------------------------|
| 100 to 2000 MHz | > 70 dB |
| 2000 to 3000 MHz | > 70 dB |
| 3000 to 6000 MHz | > 60 dB |

Dimensions

TC-5915AP Inner Dimension




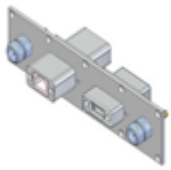
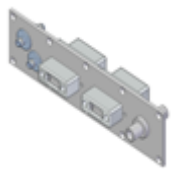
TC-5915AP Outer Dimension



Ordering Information

| Order Number | Description |
|--------------|---|
| TC-5915AP | Pneumatic Shield Box (including accessories below) Test Report RF Cable, RG-400S, N(m) to N(m) 1 m, 1 pc DATA Cable, DB9(p) to DB9(s) 2 m, 1 pc Air Coupler, 1pc Switching Power Supply, 1 pc |

Pre-Configured I/O Interface Panel

| I/O Interface Panel | Order Number | Configuration |
|---|--------------|--|
|  Data Interface Panel | M591542B | <ul style="list-style-type: none"> • one(1) DB9(p) outside and DB9(s) inside, 1000 pF Pi filter • two(2) N(f) outside and SMA(f) inside • one(1) USB 2.0 outside and inside |
|  Data Interface Panel | M591542D | <ul style="list-style-type: none"> • two(2) N(f) outside and SMA(f) inside • one(1) USB 2.0 outside and inside • one(1) RJ-45 outside and inside |
|  Data Interface Panel | M591546A | <ul style="list-style-type: none"> • two(2) SMA(f) outside and SMA(f) inside • two(2) USB 2.0 outside and inside • one(1) DC power Adapter |

Pre-Configured Side I/O Interface Panel

| Side I/O Interface Panel | Order Number | Configuration |
|-------------------------------|--------------|--|
| RJ-45 Side Interface Panel | M591531A | <ul style="list-style-type: none"> one(1) RJ-45 outside and inside |
| DC Power Side Interface Panel | M591532A | <ul style="list-style-type: none"> one(1) DC Power Adaptor |
| DB9 Side Interface Panel | M591533A | <ul style="list-style-type: none"> one(1) DB9(p) outside and DB9(s) inside, 1000 pF Pi filter |
| USB 2.0 Side Interface Panel | M591534B | <ul style="list-style-type: none"> one(1) USB 2.0 outside and inside |

Custom I/O Interface Panel

- Customized I/O Interface panels are available. Please contact Tescom sales team or your local distributor.

| I/O Interface | Order Number | Typical Data Rate / Line Voltage | *Typical Shielding |
|---|--------------|---|--|
|  DB37, 1000pF pi Filter | 3409-0012-1 | 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, 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: 5A | >60 dB from 0.5 to 2 GHz >70 dB from 2 to 3 GHz >70 dB from 3 to 6 GHz |

| I/O Interface | Order Number | Typical Data Rate / | *Typical Shielding |
|--|--------------------------|---|--|
|  USB 3.0 Filter(Active) | 3409-0042A-1 | 5000 Mbps / 5 V, 900 mA / Max Current: 1.5 A | >70 dB from 0.5 to 2 GHz >70 dB from 2 to 3 GHz >55 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 |
|  RF, N-SMA Connector | 3408-0038 | | >60 dB from 0.5 to 2 GHz >70 dB from 2 to 3 GHz >70 dB from 3 to 6 GHz |
|  RF, SMA-SMA Connector | 3408-0039 | | >60 dB from 0.5 to 2 GHz >70 dB from 2 to 3 GHz >70 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