



**Concentric Technology Solutions Inc**

Testing Solutions for the Wireless Industry

# TC-5910D Shield Box



## Features

- High RF Shielding
- Easy Opening/Closing of lid
- EMI filters on all Data and DC lines
- Easily customizable to meet various test needs
- Shock absorber on lid

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**Concentric Technology Solutions, Inc.**

TEL: 817-503-8862 FAX: 817-503-8866 Email: [CTS-Sales@ctscorp-usa.com](mailto:CTS-Sales@ctscorp-usa.com) [www.rfshieldbox.com](http://www.rfshieldbox.com) [www.ctscorp-usa.com](http://www.ctscorp-usa.com)



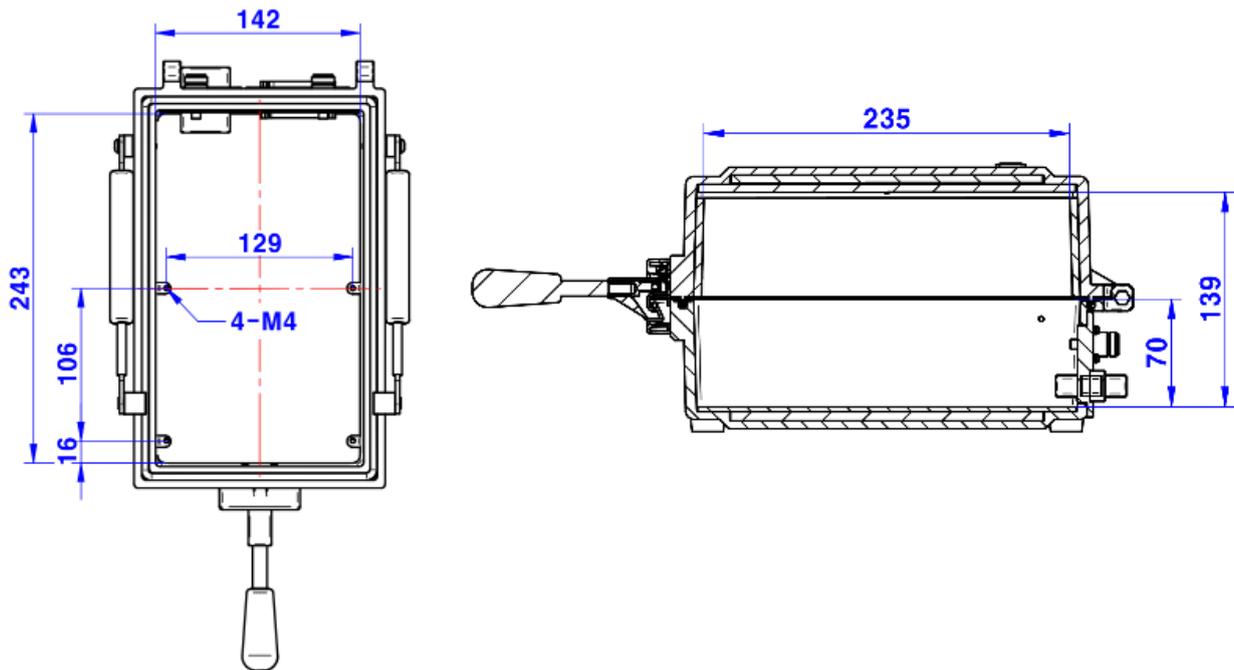
## Specifications

### Mechanical Specifications

| Dimension   |  |
|---|--|
| Inside  | 142(W) x 235(D) x 139(H) mm                                  |
| Outside   | 207(W) x 424(D) x 173(H) mm, lid closed. 435(H) mm, lid open |
| Weight  |  |
| TC-5910D  | approx. 5 kg   |
| *Packing  |  |
| Size  | 365(W) x 450(D) x 280(H) mm                                  |
| Weight  | approx. 6 kg   |
| *The size or weight of a package may vary on how to pack a package. |  |

### Dimensions

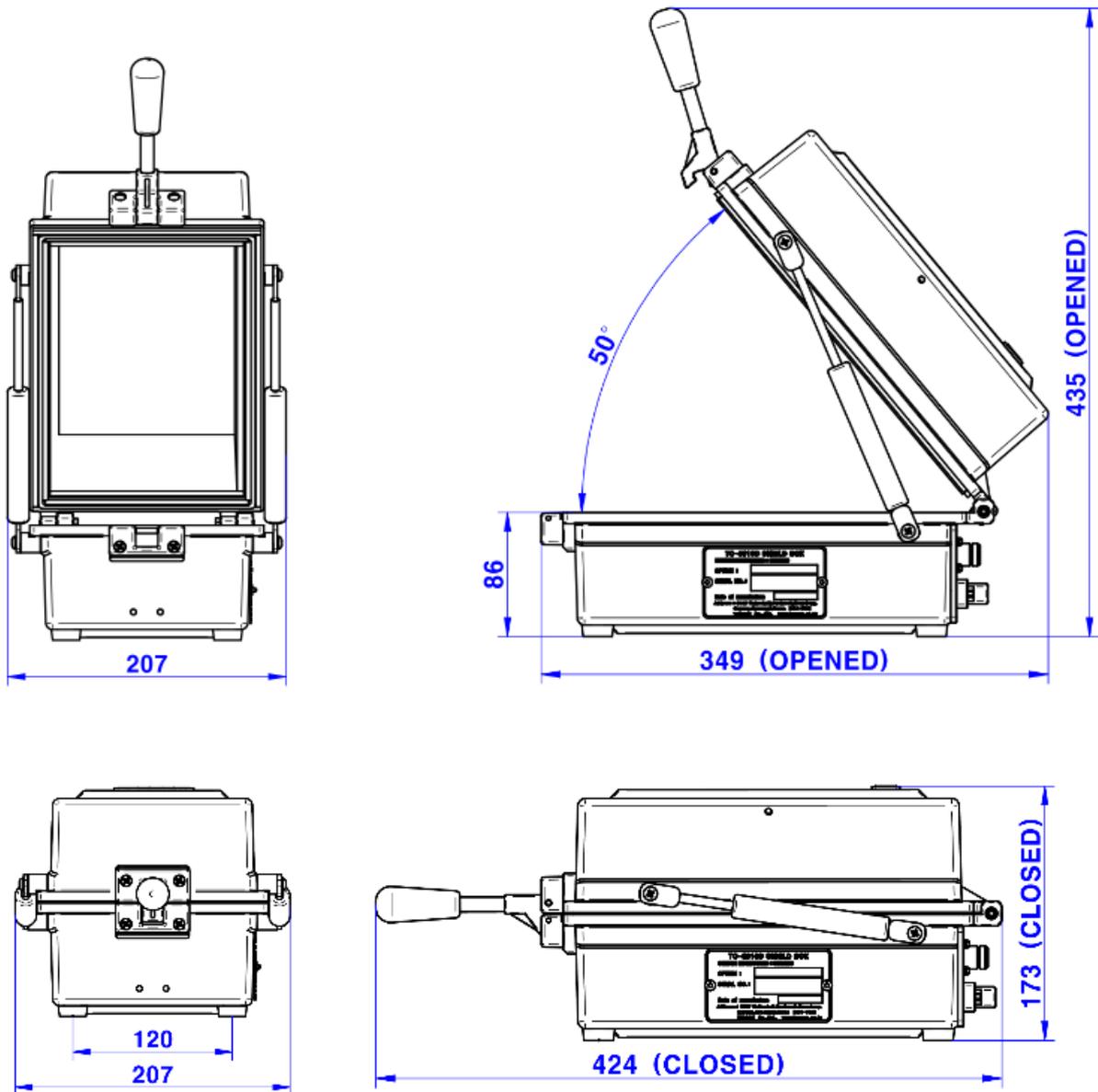
- TC-5910D Inner Dimension



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TC-5910D Outer Dimension



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  | > 80 dB                      |
| 2000 to 3000 MHz | > 70 dB                      |
| 3000 to 6000 MHz | > 60 dB                      |

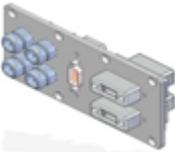
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# Ordering Information

| Order Number | Description                                      |
|--------------|--|
| TC-5910D     | <b>Shield Box (including accessories bellow)</b> |
|              | Test Report                                      |
|              | RF Cable, RG-400S, N(m) to N(m) 1 m, 1 pc        |

## Pre-Configured I/O Interface Panel

| I/O Interface Panel   | Order Number | Configuration   |
|---|--------------|---|
| <br>Data Interface Panel   | M591023A     | <ul style="list-style-type: none"> <li>• four(4) N(f) outside and SMA(f) inside</li> <li>• two(2) USB 2.0 outside and inside</li> </ul>   |
| <br>Data Interface Panel  | M591034A     | <ul style="list-style-type: none"> <li>• four(4) N(f) outside and SMA(f) inside</li> <li>• one(1) DB9(p) outside and DB9(s) inside, 1000 pF Pi filter</li> <li>• two(2) USB 2.0 outside and inside</li> </ul>   |
| <br>Data Interface Panel | M591036A     | <ul style="list-style-type: none"> <li>• two(2) SMA(f) outside and SMA(f) inside</li> <li>• one(1) DB25(p) outside and DB25(s) inside, 1000 pF Pi filter</li> <li>• one(1) DB9(p) outside and DB9(s) inside, 100 pF Pi filter</li> <li>• one(1) USB 2.0 outside and inside</li> <li>• one(1) Banana Jack type DC power Adapter</li> </ul> |

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### 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   |
|---|--------------|---|--|
| <br>DB37, 1000pF pi Filter   | 3409-0012-1  | 3 Mbps / 100 VDC,<br>5 Amps max                 | >70 dB from 0.5 to 2 GHz<br>>80 dB from 2 to 3 GHz<br>>70 dB from 3 to 6 GHz |
| <br>DB25, 1000pF pi Filter   | 3409-0009-1  | 3 Mbps / 100 VDC,<br>5 Amps max                 | >70 dB from 0.5 to 2 GHz<br>>80 dB from 2 to 3 GHz<br>>70 dB from 3 to 6 GHz |
| <br>DB25, 100pF pi Filter    | 3409-0014-1  | 10 Mbps / 100 VDC,<br>5 Amps max                | >50 dB from 0.5 to 2 GHz<br>>60 dB from 2 to 3 GHz<br>>60 dB from 3 to 6 GHz |
| <br>DB9, 1000pF pi Filter   | 3409-0008-1  | 3 Mbps / 100 VDC,<br>5 Amps max                 | >70 dB from 0.5 to 2 GHz<br>>80 dB from 2 to 3 GHz<br>>70 dB from 3 to 6 GHz |
| <br>DB9, 100pF pi Filter   | 3409-0010-1  | 10 Mbps / 100 VDC,<br>5 Amps max                | >50 dB from 0.5 to 2 GHz<br>>60 dB from 2 to 3 GHz<br>>60 dB from 3 to 6 GHz |
| <br>USB 2.0 Filter         | 3409-0018A-3 | 480 Mbps / 5 V, 500 mA /<br>Max Current: 5A     | >60 dB from 0.5 to 2 GHz<br>>70 dB from 2 to 3 GHz<br>>70 dB from 3 to 6 GHz |
| <br>USB 3.0 Filter(Active) | 3409-0042A-1 | 5000 Mbps / 5 V, 900 mA /<br>Max Current: 1.5 A | >70 dB from 0.5 to 2 GHz<br>>70 dB from 2 to 3 GHz<br>>55 dB from 3 to 6 GHz |
| <br>RJ-45 Filter           | 3409-0022A   | 1 Gbit/s Copper-Line<br>Ethernet (1000 BASE-T)  | >60 dB from 0.5 to 2 GHz<br>>70 dB from 2 to 3 GHz<br>>70 dB from 3 to 6 GHz |
| <br>DC Power Adaptor,      | 3406-0004A   | 50 VDC,<br>3 Amps max                           | >70 dB from 0.5 to 2 GHz<br>>80 dB from 2 to 3 GHz<br>>80 dB from 3 to 6 GHz |

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| I/O Interface  | Order Number             | Typical Data Rate / Line Voltage | *Typical Shielding   |
|--|--------------------------|----------------------------------|--|
| <br>DC Power Adaptor,<br>Banana Jack Type | 3406-0005A<br>3406-0006A | 50 VDC,<br>10 Amps max           | >70 dB from 0.5 to 2 GHz<br>>80 dB from 2 to 3 GHz<br>>80 dB from 3 to 6 GHz |
| <br>AC Power Adaptor                      | 3103-0009A               | 250 VAC,<br>7 Amps max           | >70 dB from 0.5 to 2 GHz<br>>80 dB from 2 to 3 GHz<br>>80 dB from 3 to 6 GHz |
| <br>RF, N-SMA Connector                   | 3408-0038                |                                  | >60 dB from 0.5 to 2 GHz<br>>70 dB from 2 to 3 GHz<br>>70 dB from 3 to 6 GHz |
| <br>RF, SMA-SMA Connector                 | 3408-0039                |                                  | >60 dB from 0.5 to 2 GHz<br>>70 dB from 2 to 3 GHz<br>>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.

Fixture

| Fixture   | Order Number | Size                       |
|---|--------------|----------------------------|
|  | F59105A      | 140(W) x 210(D) x 11(H) mm |

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