



**Concentric Technology Solutions Inc**

Testing Solutions for the Wireless Industry

## TC-5972D Shield Box



### Features

- High RF Shielding
- Easy Opening/Closing of Door
- EMI filters on all Data lines
- Customizable Data connections
- Shock Absorber on lid
- Multilayer absorber for radiation testing

*SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE*

Concentric Technology Solutions, Inc.

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## Specifications

### Mechanical Specification

RF Connectors without module	4 N (f) outside and SMA (f) inside
Dimension	
Inside	445(W) x 445(D) x 335(H) mm, 230(D)mm top side
Outside	564(W) x 620(D) x 444(H) mm, door closed. 736(H) mm, door open.
Door	420(W) x 358(D)
Weight	approx. 28 kg
*Packing	
Size	630(W) x 810(D) x 575(H) mm
Weight	approx. 35 kg

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

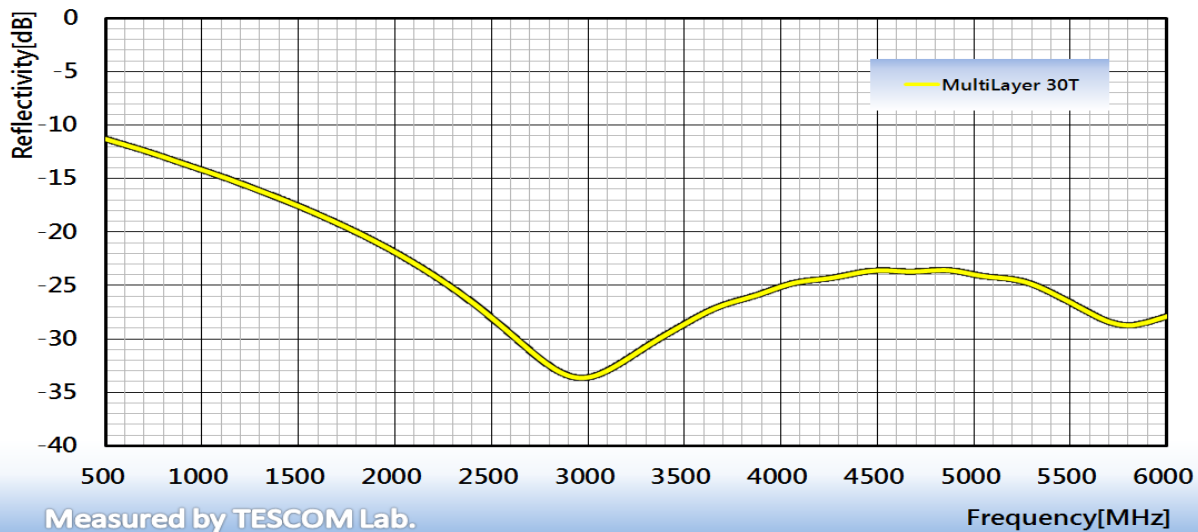
### Typical RF Shielding

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.

100 to 2000 MHz	> 70 dB
2000 to 3000 MHz	> 70 dB
3000 to 6000 MHz	> 60 dB

### Absorber Reflectivity

Measured using the VNA signal that is reflected by Absorber.



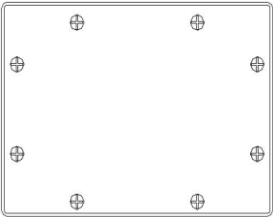
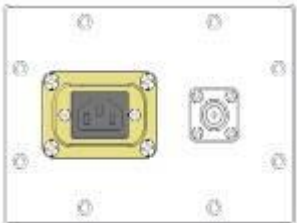
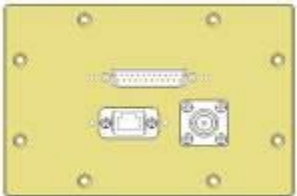
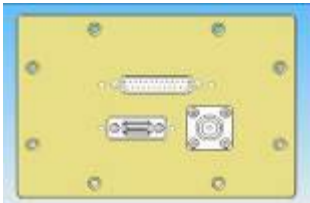
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## Ordering Information

Order Number	Description
	<b>Shield Box (including accessories bellow)</b>
TC-5972D	Operating Manual Test Report RG400S, N(m) to N(m) cable, 1 m, 1 pc

### I/O Interface Panel

	Order Number	Configuration
	M5970D01A	<ul style="list-style-type: none"> <li>*Shielding Effectiveness: &gt;70 dB from 0.5 to 2 GHz, &gt;70 dB from 2 to 3 GHz, &gt;60 dB from 3 to 6 GHz</li> </ul>
<b>Blank Panel</b>		
	M5970C02A	<ul style="list-style-type: none"> <li>*Shielding Effectiveness:&gt;70 dB from 0.5 to 3 GHz, &gt;60 dB from 3 to 6 GHz</li> <li>1 N (f) outside and SMA (f) inside</li> <li>AC Inlet, 100 VAC~300 VAC, 10 A</li> </ul>
<b>RF and AC Power Panel</b>		
	M5970C03A	<ul style="list-style-type: none"> <li>*Shielding Effectiveness:&gt;60 dB from 0.5 to 3 GHz, &gt;55 dB from 3 to 6 GHz</li> <li>1 N (f) outside and SMA (f) inside</li> <li>RJ-45 outside and inside, 10 pF Pi filter</li> <li>One DB25(p) outside, DB25(s) inside, 1000 pF Pi filter</li> </ul>
<b>RF and RJ45, DB25 Data Interface Panel</b>		
	M5970C04A	<ul style="list-style-type: none"> <li>*Shielding Effectiveness:&gt;60 dB from 0.5 to 3 GHz, &gt;55 dB from 3 to 6 GHz</li> <li>1 N (f) outside and SMA (f) inside</li> <li>USB outside and inside</li> <li>One DB25(p) outside, DB25(s) inside, 1000 pF Pi filter</li> </ul>
<b>RF and USB, DB25 Data Interface Panel</b>		

\*Each shielding effectiveness is measured when each I/O interface panel, which is shown above, is mounted.

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I/O Interface

Customized I/O Interface panels are available. Please contact us.

I/O Interface	Order Number	Typical Data Rate / Line Voltage	*Typical Shielding
 DB25, 1000 pF Pi Filter	3409-0009-1	3 Mbps	>70 dB from 0.5 to 2 GHz >60 dB from 2 to 3 GHz >55 dB from 3 to 6 GHz
 DB25, 100 pF Pi Filter	3409-0014-1	10 Mbps	>70 dB from 0.5 to 2 GHz >60 dB from 2 to 3 GHz >55 dB from 3 to 6 GHz
 DB9, 1000 pF Pi Filter	3409-0008-1	3 Mbps	>70 dB from 0.5 to 2 GHz >60 dB from 2 to 3 GHz >55 dB from 3 to 6 GHz
 DB9, 100 pF Pi Filter	3409-0010-1	10 Mbps	>70 dB from 0.5 to 2 GHz >60 dB from 2 to 3 GHz >55 dB from 3 to 6 GHz
 USB A(p) 2.0, Pi Filter	3409-0018A-3	480 Mbps	>60 dB from 0.5 to 6 GHz
 RJ-45, Pi Filter	3409-0022A	250 Mbps	>60 dB from 0.5 to 3 GHz
 DC Power Adaptor, Jack Type	3409-0004A	50 VDC, 3 Amps max	>70 dB from 0.5 to 2 GHz >60 dB from 2 to 3 GHz >55 dB from 3 to 6 GHz
 DC Power Adaptor, Banana Jack Type	3409-0005A	50 VDC, 50 VDC, 10 Amps max	>70 dB from 0.5 to 2 GHz >60 dB from 2 to 3 GHz >55 dB from 3 to 6 GHz
 AC Power Adaptor		250 VAC, 7 Amps max	>70 dB from 0.5 to 2 GHz >60 dB from 2 to 3 GHz >55 dB from 3 to 6 GHz

\*Each shielding effectiveness is measured when each I/O interface panel, which is shown above, is mounted.

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