TC-5921AE Magnetic 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
- High performance absorber for radiation testing

TESCOM

Specifications

Mechanical Specification

RF Connectors without I/O interface panel	
	two(2) N(f) outside and SMA(f) inside
Line voltage	
Line voltage	DC 24 V, Max. 2 A
Dimension	
Inside	222(W) x 388(D) x 205(H) mm
Outside	296(W) x 520(D) x 271(H) mm, lid closed. 619(H) mm, Angle 47° lid open.
Weight	
	approx. 17 kg
***Packing**	
Size	385(W) x 700(D) x 410(H) mm
Weight	approx. 20 kg
*The size or weight of a package may vary on how to pack a package.	

Typical RF Shielding

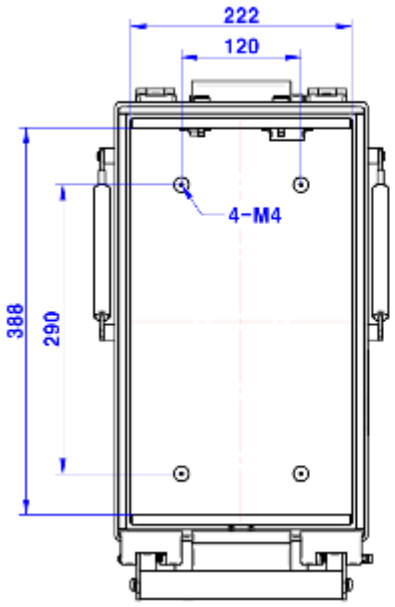
- The shielding effectiveness below is measured when the blank panel is mounted; other I/O interfac e panel results a different shielding effectiveness of the shield box.

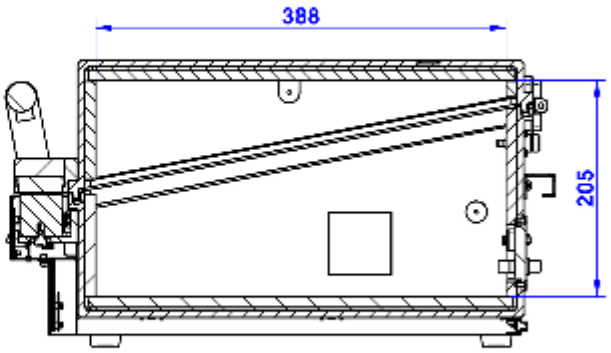
Frequency	Shielding effectiveness (dB)
100 to 2000 MHz	〉70 dB
2000 to 3000 MHz	〉70 dB
3000 to 6000 MHz	〉60 dB

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TEL: 82-31-920-6600 FAX: 82-31-920-6607 support@tescom.org http://www.tescom.co.kr

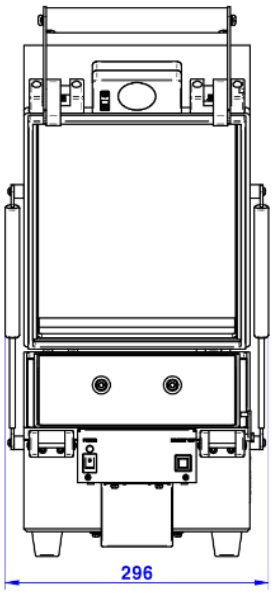
Dimensions

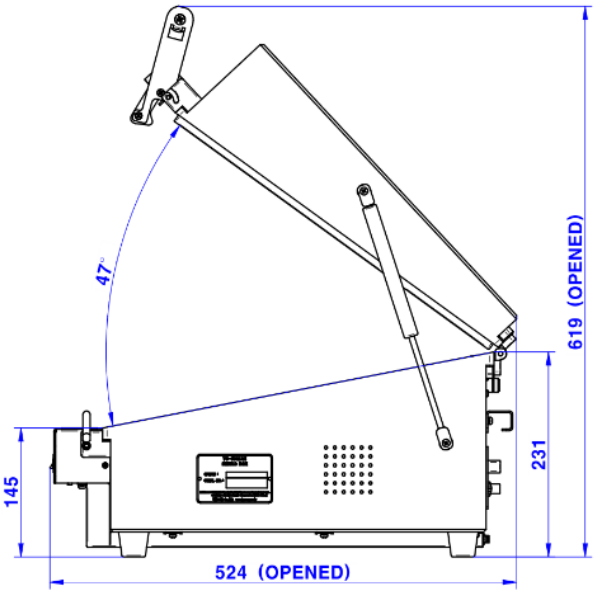
- TC-5921AE Inner Dimension

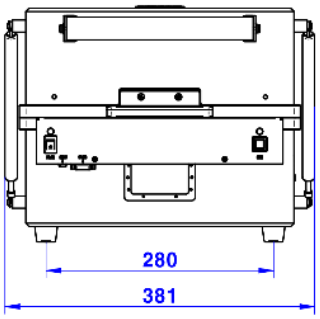


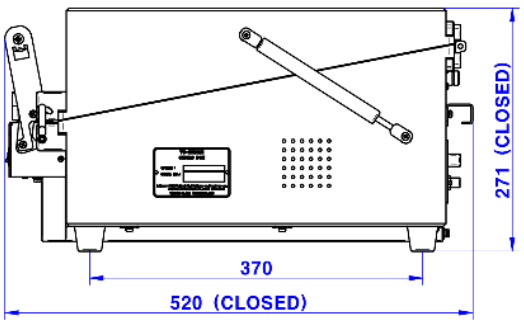


- TC-5921AE Outer Dimension







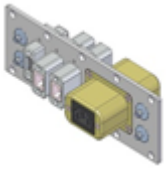


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Ordering Information

Order Number	Description
TC-5921AE	**Magnetic Shield Box (including accessories bellow)**
	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 Switching Power Supply, 1 pc

Pre-Configured I/O Interface Panel

I/O Interface Panel	Order Number	Configuration
 Data Interface Panel	M591689A	• one(1) DB25(p) outside and DB25(s) inside, 100 pF Pi filter • one(1) DB9(p) outside and DB9(s) inside, 100 pF Pi filter • two(2) N(f) outside and SMA(f) inside • two(2) USB 2.0 outside and inside
 Data Interface Panel	M5916103A	• four(4) SMA(f) outside and SMA(f) inside • one(1) USB 2.0 outside and inside • two(2) RJ-45 outside and inside • one(1) AC power Adapter
 Data Interface Panel	M5916114A	• one(1) DB37(p) outside and DB37(s) inside, 1000 pF Pi filter • six(6) SMA(f) outside and SMA(f) inside • two(2) USB 3.0 outside and inside

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Custom I/O Interface Panel

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

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
 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

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I/O Interface	Order Number	Typical Data Rate / Line Voltage	*Typical Shielding
 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

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