TC-5972D Shield Box



Features

- High RF Shielding
- Easy Opening/Closing of lid
- EMI filters on all Data and DC lines
- Customizable Data connections
- Door safety function when the door opens and closed
- High performance absorber for radiation testing





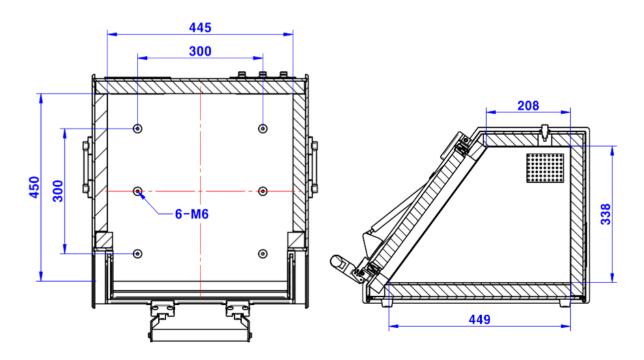
Specifications

Mechanical Specification

RF Connectors without I/O interface panel				
	four(4) N(f) outside and SMA(f) inside			
Dimension				
Inside	445(W) x 450(D) x 338(H) mm, 208(D) mm Top side			
Outside	562(W) x 647(D) x 450(H) mm, lid closed. 715(H) mm, lid open.			
Weight				
TC-5972D	approx. 28 kg			
*Packing				
Size	620(W) x 800(D) x 530(H) mm			
Weight	approx. 36 kg			
*The size or weight of a package may vary on how to pack a package.				

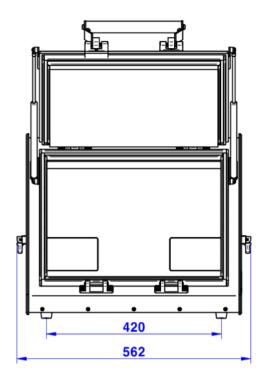
Dimensions

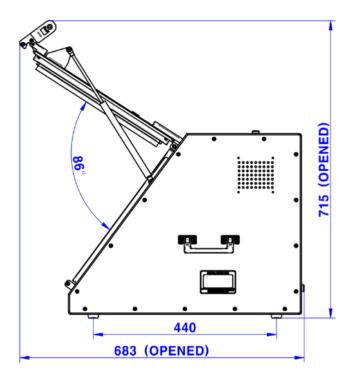
TC-5972D Inner Dimension

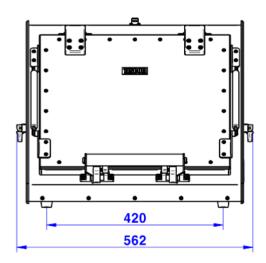


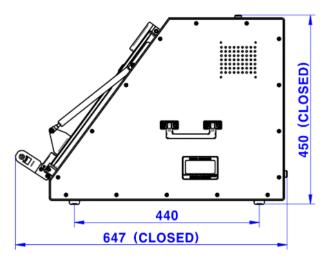


TC-5972D Outer Dimension











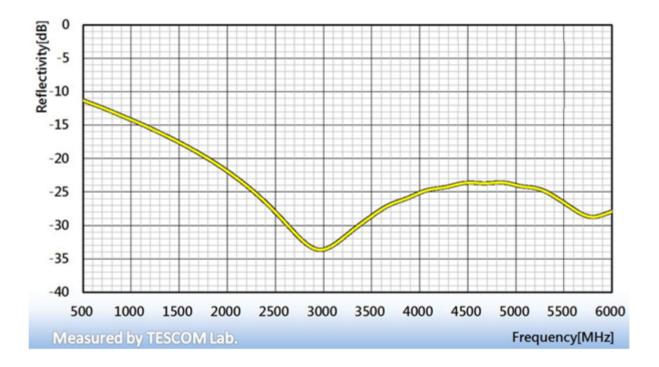
Typical RF Shielding

• The shielding effectiveness below is measured when the blank panel is mounted; other I/O interface 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		

Absorber Reflectivity

• Measured the reflected signal from the absorber with metal plate using the VNA.





Ordering Information

Order Number	Description
TC-5972D	Shield Box (including accessories bellow)
	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
Blank Panel	M5970D01A	Blank module (Absorber)
	M5970C03A	 one(1) N(f) outside and SMA(f) inside one(1) RJ-45 outside and inside one(1) DB25(p) outside and DB25(s) inside, 1000 pF Pi filter
Data Interface Panel	M5970C04A	- (4) N/O
	M5970C04A	 one(1) N(f) outside and SMA(f) inside one(1) USB 2.0 outside and inside one(1) DB25(p) outside and DB25(s) inside, 1000 pF Pi filter
Data Interface Panel		
	M5970C08A	• one(1) USB 2.0 outside and inside
Data Interface Panel		



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 /	*Typical Shielding
		Line Voltage	
100001	3409-0012-1	3 Mbps / 100 VDC,	>70 dB from 0.5 to 2 GHz
*		5 Amps max	>80 dB from 2 to 3 GHz
DB37, 1000pF pi Filter			>70 dB from 3 to 6 GHz
Commission of the Commission o	3409-0009-1	3 Mbps / 100 VDC,	>70 dB from 0.5 to 2 GHz
0		5 Amps max	>80 dB from 2 to 3 GHz
			>70 dB from 3 to 6 GHz
DB25, 1000pF pi Filter			
Elout .	3409-0014-1	10 Mbps / 100 VDC,	>50 dB from 0.5 to 2 GHz
0		5 Amps max	>60 dB from 2 to 3 GHz
DB25, 100pF pi Filter			>60 dB from 3 to 6 GHz
DBZD, TOOPE PI FIILEI	3409-0008-1	3 Mbps / 100 VDC,	>70 dB from 0.5 to 2 GHz
The state of	3409-0006-1	5 Amps max	>80 dB from 2 to 3 GHz
· 1		J Amps max	>70 dB from 3 to 6 GHz
DB9, 1000pF pi Filter			770 db 110111 3 to 0 G112
The second second	3409-0010-1	10 Mbps / 100 VDC,	>50 dB from 0.5 to 2 GHz
C. 10000		5 Amps max	>60 dB from 2 to 3 GHz
			>60 dB from 3 to 6 GHz
DB9, 100pF pi Filter			
SEE STATE OF THE PARTY OF THE P	3409-0018A-3	480 Mbps / 5 V, 500 mA /	>60 dB from 0.5 to 2 GHz
		Max Current: 5A	>70 dB from 2 to 3 GHz
			>70 dB from 3 to 6 GHz
USB 2.0 Filter			
The same of the sa	3409-0042A-1	5000 Mbps / 5 V, 900 mA /	>70 dB from 0.5 to 2 GHz
		Max Current: 1.5 A	>70 dB from 2 to 3 GHz
			>55 dB from 3 to 6 GHz
USB 3.0 Filter(Active)			
and the same of th	3409-0022A	1 Gbit/s Copper-Line	>60 dB from 0.5 to 2 GHz
9		Ethernet (1000 BASE-T)	>70 dB from 2 to 3 GHz
DL 45 Files			>70 dB from 3 to 6 GHz
RJ-45 Filter	2406 22242	FO VIDG	\70 ID (05 : 25 : 25 : 25 : 25 : 25 : 25 : 25 :
	3406-0004A	50 VDC,	>70 dB from 0.5 to 2 GHz
		3 Amps max	>80 dB from 2 to 3 GHz
DC Power Adaptor,			>80 dB from 3 to 6 GHz



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