

Solutions for the Wireless Industry

TC-5910DU Shield Box



Features

- Reliable High RF Shielding from 0.1 GHz to 12 GHz
- Easy Opening/Closing
- Absorbing materials for stable measurement results
- EMI filters on all data ports and power lines
- Customizable I/O interface panels
- Shock absorber on the lid



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TC-5910DU Shield Box Data Sheet

Specifications

RF :	Speci	ficati	ons
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Frequency Range 0.1 GHz to 12 GHz

* Shielding Effectiveness (Typ.)

0.1 GHz to 3 GHz > 70 dB 3 GHz to 6 GHz > 60 dB 6 GHz to 12 GHz > 60 dB

^{*} The shielding effectiveness is measured with blank panels installed; other I/O interface panels may result in different shielding effectiveness.

Mechanical Specification	ons	
Basic RF Connector	None	
Dimensions		
Inside	142(W) x 243(D) x 134(H) mm	
Outside	207(W) x 424(D) x 173(H) mm, lid closed. 435(H) mm, lid open.	
Weight	Approx. 7 kg	
*Packing		
Size	370(W) x 460(D) x 280(H) mm	

^{*} The size or weight of a package may vary depending on how the product is packed.

Approx. 8 kg

Absorber Reflectivity

Weight

Referring to a metal plate (0 dB @ 0.5 GHz to 12 GHz), signal reduction is measured with the RF absorber inserted.

Frequency Range	Reflectivity (Typical)
0.1 GHz to 3 GHz	3 dB
3 GHz to 6 GHz	6 dB
6 GHz to 12 GHz	10 dB

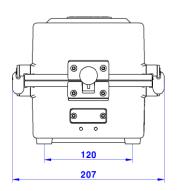
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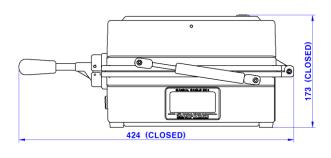
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Dimensions

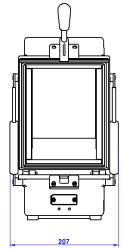
• TC-5910DU Outer Dimensions (WxDxH): 207(W) x 424(D) x 173(H) mm

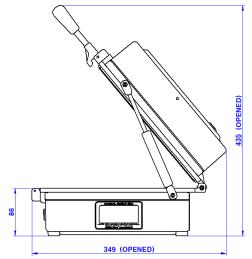




Front View (Closed)

Side View (Closed)

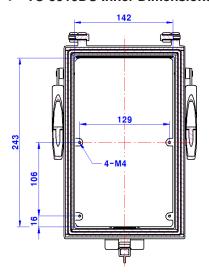


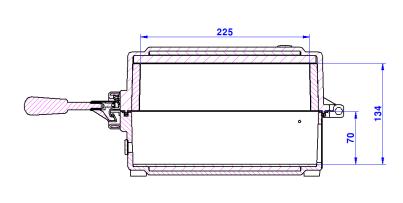


Front View (Opened)

Side View (Opened)

• TC-5910DU Inner Dimensions (WxDxH): 142(W) x 243(D) x 134(H) mm





Side Inner View

Bottom Inner View

TEL: 817-503-8862 FAX: 817-503-8866



Ordering Information

Order Number	Description	
	Shield Box (including accessories below)	
TC-5910DU	Test Report 4011-0144, RF Cable, SS-402, N(m) to N(m) 1 m, 1 pc	

Pre-Configured I/O Interface Panel

I/O Interface Panel	Order Number	Configuration
	M01001A	 three(3) SMA (f) ouside and SMA (f) inside one(1) DB25(p) outside and DB25(s) inside, 1000 pF Pi filter one(1) DB9(p) outside and DB9(s) inside, 100 pF Pi filter one(1) USB 2.0 outside and inside one(1) DC Power Jack Adaptor
	M01002A	 Two(2) N(f) outside and SMA(f) inside one(1) DB25(p) outside and DB25(s) inside, 1000 pF Pi filter one(1) USB2.0 outside and inside
	M01003A	 four(4) N (f) ouside and SMA (f) inside one(1) USB3.2 Gen1 Type-A outside and inside one(1) USB3.2 Gen2 Type-C outside and inside

Custom I/O Interface Panel

Custom RF Connector Panel

Custom RF Connector Panel is available by selecting or combining the below RF Connectors.

RF Connector	Description / Order Number	Frequency Range / Impedance / V.S.W.R
Second Second	RF, N-SMA BH Connector / 3408-0100	From DC to 18 GHz / 50 Ω / 1.3 max
Gorood Gorood	RF, SMA-SMA BH Connector / 3408-0101	From DC to 18 GHz / 50 Ω / 1.3 max



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Custom I/O Interface Panel

Customized I/O Interface Panel is available by selecting below I/O interfaces and combine.
 Please contact the CTS sales team.

I/O Interface	Description / Order Number	Typical Data Rate / Line Veltage	Typical Shielding ^(*)
	USB 2.0 Filter /	480 Mbps /	>60 dB from 0.5 to 2 GHz
	3409-0018A-3 ^(a)	5 V, 500 mA/	>70 dB from 2 to 3 GHz
		Max Current: 5 A	>70 dB from 3 to 6 GHz
			>70 dB from 6 to 12 GHz
	USB 3.2 Gen 1, Type-A	5000 Mbps /	>80 dB from 0.5 to 2 GHz
	Adapter (Active Type)	5 V, 600 mA/	>80 dB from 2 to 3 GHz
A CONTRACTOR OF THE PARTY OF TH	/3409-0042A-2 ^(a)	Max Current: 1.5 A	>75 dB from 3 to 6 GHz
			>55 dB from 6 to 12 GHz
	USB 3.2 Gen 2, Type-C	10 Gbps /	>70 dB from 0.5 to 2 GHz
	Adapter (Active Type)	4 ~ 22 V /	>70 dB from 2 to 3 GHz
	/3409-0046A	Max Current: 5 A	>70 dB from 3 to 6 GHz
			>70 dB from 6 to 12 GHz
	RJ-45 Filter /	RJ45 Filter: 1 Gbit/s	>60 dB from 0.5 to 2 GHz
	3904-0296A	Copper Line Ethernet	>70 dB from 2 to 3 GHz
14.		(1000 BASE-T)	>70 dB from 3 to 6 GHz
			>60 dB from 6 to 12 GHz
	DC Power Adaptor /	50 VDC,	>70 dB from 0.5 to 2 GHz
	3406-0004A	3 Amps max	>80 dB from 2 to 3 GHz
			>80 dB from 3 to 6 GHz
			>70 dB from 6 to 12 GHz
	DC Power Adaptor	50 VAC,	>70 dB from 0.5 to 2 GHz
	(Banana Jack Type)	10 Amps max	>80 dB from 2 to 3 GHz
	3406-0005A-1 (Black)		>80 dB from 3 to 6 GHz
	3406-0006A-1 (White)		>70 dB from 6 to 12 GHz
	AC Power Adaptor /	250 VAC,	>70 dB from 0.5 to 2 GHz
	3103-0009A	7 Amps max	>80 dB from 2 to 3 GHz
			>80 dB from 3 to 6 GHz
			>70 dB from 6 to 12 GHz

- •(a): Exclusive cables should be used.

 (USB Cable, 4008-0079A, 2 M, USB 3.0 A(M) USB 3.0 A(M), Housing: Aluminum)
- •*Typical Shielding is an estimated value with I/O interface applied.
- The data above were measured by internal standards, and they may be different depending on the measuring method and environment.
- Shielding effectiveness is measured without any cables connected, so it may likely be affected when a cables are connected. Also, it may vary depending on the type of cable used.



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Fixture

- CTS offers standard grid fixtures that allow changing the positioning of DUT holding blocks to
 enable optimal fit for different shapes or sizes of f DUT within seconds. Also, fully customized
 fixtures can be manufactured and supplied if necessary to meet the customer's requirements.
- In addition to the fixture, various types of antenna coupler options can be integrated into the fixture to form an ideal measuring environment for characteristics of each DUT.

Fixture	Order Number	Description
	F59106A	 Antenna Coupler fixed type fixture Antenna Coupler(Optional): TC-93026A 140(W) x 210(D) x 23.5(H) mm

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE