TC-5916AU 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 line
- Customizable I/O interface panels
- Shock absorber on the lid





Specifications

RF Specifications

Kr Specifications		
Frequency Range	100 MHz to 12 GHz	
* Shielding Effectiveness (Typ.)		
0.1 GHz to 3 GHz	> 70 dB	
3 GHz to 6 GHz	> 70 dB	
6 GHz to 12 GHz	> 70 dB	

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

Mechanical Specifications

Basic RF Connector	Two(2) N (f) outside and SMA (f) inside
Dimensions	
Inside	328(W) x 298(D) x 206(H) mm
Outside	399(W) x 473(D) x 239(H) mm, lid closed. 495(H) mm, lid open.
Weight	Approx. 10 kg
*Packing	
Size	460(W) x 530(D) x 340(H) mm
Weight	Approx. 11 kg

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

Absorber Reflectivity

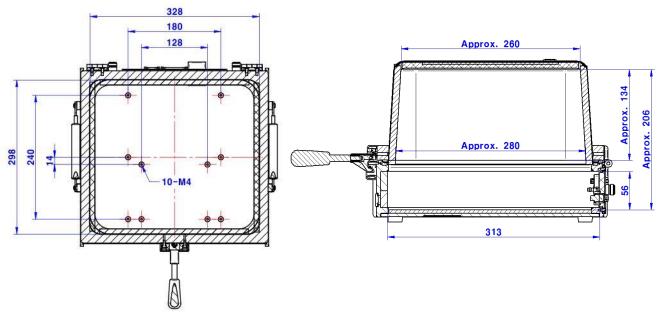
Referring to a metal plate (0 dB @ 0.5 GHz to 12 GHz), signal reduction is measured with the RF absorber inserted.

Frequency Range	Reflectivity (Typ.) [dB]
0.5 GHz to 3 GHz	3 dB
3 GHz to 6 GHz	6 dB
6 GHz to 12 GHz	10 dB



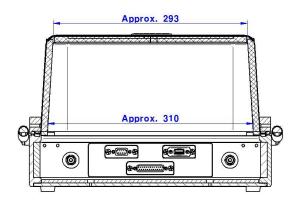
Dimensions

• TC-5916AU Inner Dimensions (W×D×H) : 328(W) × 298(D) × 206(H) mm (Internal dimensions may vary by lot.)



Bottom Inner View

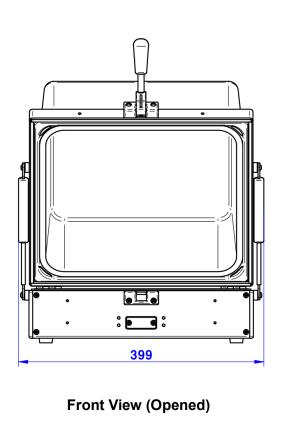
Side Inner View (Closed)

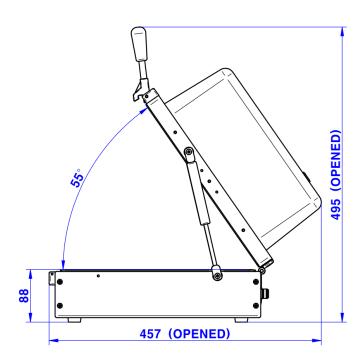


Rear Inner View

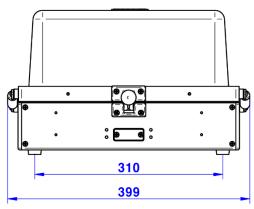


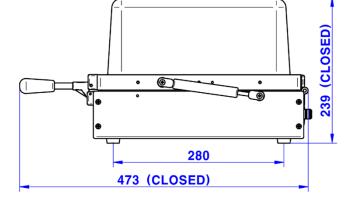
• TC-5916AU Outer Dimensions (W×D×H) : 399(W) × 473(D) × 239(H) mm, lid closed. 495(H) mm, lid open.





Side View (Opened)





Front View (Closed)

Side View (Closed)



Ordering Information

Order Number	Description		
	Shield Box (including accessories below)		
TC-5916AU	Test Report		

Optional I/O Interface Panel

Pre-Configured I/O Interface Panel

I/O Interface Panel	Order Number	Configuration
	TBD	Blank Panel (with absorber)

Optional Antenna Coupler Fixture

- TESCOM offers standard grid fixtures that can change the position of DUT holding blocks. An
 optimal fit for different shapes of DUT can be made within seconds. Also, fully customized fixtures
 can be manufactured and supplied if necessary to meet the customer's demands.
- In addition to the fixture, various types of antenna coupler options can form an ideal measuring environment for characteristics of each DUT.

Antenna Coupler	Order Number	Configuration	
	Grid Fixture(TBD) TC-93160A	Antenna Coupler fixed grid fixture • Antenna Coupler(Optional): TC-93160A - Frequency range: 6 GHz ~ 12 GHz - RF connector type: SMA female • RF Cable: 4011-0123 - Frequency range: DC to 18 GHz	
	F59166A TC-93061A	 SS-405, SMA(M) R/A -SMA(M) R/A, 80 cm Antenna Coupler fixed type grid fixture Antenna Coupler(Optional): TC-93061A Frequency range: 800 MHz ~ 6 GHz RF connector type: SMA female RF Cable: 4011-0076 Frequency range SS-405, SMA(M) - SMA(M), 50 cm 	

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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 4H Connector / 3407-0028	From DC to 18 GHz / 50 Ω / 1.3 max
in the second	RF, SMA-SMA 4H Connector / 3408-0098	From DC to 18 GHz / 50 Ω / 1.3 max

Custom I/O Interface Panel

Customized I/O Interface Panel is available by selecting below I/O interfaces and combine.
 Please contact Tescom sales team or your local distributor.

I/O Interface	Description /	Typical Data Rate /	Typical Shielding ^(*)
	Order Number	Line Veltage	
	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 3.1 Gen 1 Filter (Active)	5000 Mbps /	>80 dB from 0.5 to 2 GHz
	/3409-0042A-2 ^(a)	5 V, 600 mA/	>80 dB from 2 to 3 GHz
		Max Current: 1.5 A	>75 dB from 3 to 6 GHz
			>55 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
10		(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 TESCOM standards, and they may be different depending on the measuring method and environment.
- Each shielding effectiveness is measured without any cable, so it will be likely affected when a cable is connected. Also, it may vary depending on the type of cable.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE