



Concentric Technology Solutions Inc

Testing Solutions for the Wireless Industry

TC-5915AP Pneumatic Shield Box



Features

- Reliable High RF Shielding up to 6 GHz
- Pneumatic control of lid open-close and optional test fixture motions
- Easily customizable to meet various test needs
- Shock Absorbers on lid
- Red and Green LED's for Pass/Fail indication
- EMI filters on all data ports and power line
- Remote operation by RS-232C



Specifications

Mechanical Specification

Line voltage	DC 24 V, Max. 2A
Remote control	RS-232C, 3 wire, DB9(s)
Air connection	
Main connector	6mm OD hose, one-touch push-on fitting
Fixture control connector	4mm OD hose, one-touch push-on fitting
Input air pressure	5 to 10 bar
Dimension	
Inside	220(W) x 280(D) x 170(H) mm
Outside	325(W) x 432(D) x 233(H) mm, lid closed. 372(H) mm, lid open
Weight	approx. 9 kg
*Packing	
Size	510 (W) x 445(D) x 310(H) mm
Weight	approx. 10 kg

Typical RF Shielding

It is measured including the blank panel module, without cable. The shielding effectiveness can be different depend on the data connector in the module.

100 to 2000 MHz	> 70 dB
2000 to 3000 MHz	> 70 dB
3000 to 6000 MHz	> 50 dB

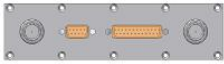
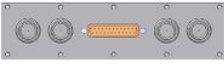
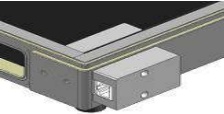
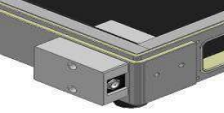
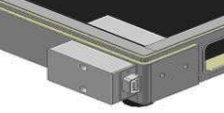
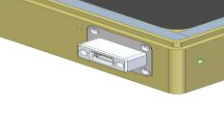
Ordering Information

Order Number	Description
	Pneumatic Shield Box (including accessories below)
	Operating Manual
	Test Report
TC-5915AP	RG400S, N(m) to N(m) cable, 1 m, 1 pc
	DB9(p) to DB9(s) cable, 1 m, 1 pc.
	DB25(p) to DB25(s) cable, 1 m, 1 pc.
	DB9(p) to DB9(s) cable, 2 m, 1 pc.
	Power Cable. 220 V, 1 pc

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE



I/O Interface Panel

	Order Number	Configuration
 <p>Data Interface Panel</p>	M591502B	<ul style="list-style-type: none"> *Shielding Effectiveness:>70 dB from 0.1 to 2 GHz, >60 dB from 2 to 3 GHz, >55 dB from 3 to 6 GHz DB9(p) outside and DB9(s) inside, 1000 pF Pi filter DB25(p) outside and DB25(s) inside, 1000 pF Pi filter 2 N(f) outside and SMA(f) inside Data line Capacity : 100 VDC, 3 Amps max.
 <p>Data Interface Panel</p>	M591505A	<ul style="list-style-type: none"> *Shielding Effectiveness:>70 dB from 0.1 to 2 GHz, >60 dB from 2 to 3 GHz, >55 dB from 3 to 6 GHz DB25(p) outside and DB25(s) inside, 1000 pF Pi filter 4 N(f) outside and SMA(f) inside Data line Capacity : 100 VDC, 3 Amps max.
 <p>RJ-45 Interface Panel</p>	M591531A	<ul style="list-style-type: none"> *Shielding Effectiveness: >60 dB from 0.1 to 3 GHz RJ-45 outside and inside, 10pF Pi filter, for LAN Data line Capacity : 1.5 Amps max.
 <p>DC Power interface Panel</p>	M591532A	<ul style="list-style-type: none"> *Shielding Effectiveness:>70 dB from 0.1 to 2 GHz, >60 dB from 2 to 3 GHz, >55 dB from 3 to 6 GHz DC Power Jack outside and inside Data line Capacity : 100 VDC, 3 Amps max.
 <p>DB9 Interface Panel</p>	M591533A	<ul style="list-style-type: none"> *Shielding Effectiveness:>70 dB from 0.1 to 2 GHz, >60 dB from 2 to 3 GHz, >55 dB from 3 to 6 GHz DB9(p) outside and DB9(s) inside, 1000 pF Pi filter Data line Capacity : 100 VDC, 3 Amps max.
 <p>USB Interface Panel</p>	M591534B	<ul style="list-style-type: none"> *Shielding Effectiveness: >60 dB from 0.1 to 6 GHz USB A(p) 2.0, 10 pF Pi filter Data line Capacity : 1 Amps max. (Frequency range : 200 MHz ~ 5.8 GHz) ※ Only for USB to USB Connection

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

I/O Interface

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

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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 0.1 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 0.1 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 0.1 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 0.1 to 2 GHz >60 dB from 2 to 3 GHz >55 dB from 3 to 6 GHz
 USB A(p) 2.0, 10 pF Pi Filter	3409-0018A-3	480 Mbps	>60 dB from 0.1 to 6 GHz
 RJ-45, 10 pF Pi Filter	3409-0022A	250 Mbps	>60 dB from 0.1 to 3 GHz
 DC Power Adaptor, Jack Type	3409-0004A	50 VDC, 3 Amps max	>70 dB from 0.1 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 0.1 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 0.1 to 2 GHz >60 dB from 2 to 3 GHz >55 dB from 3 to 6 GHz

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