Shielding Box MSB-0410

MTS-No.: 29919

Application

The Shielding Box can be used for measurements and tests of electronic devices such as mobile phones, notebooks, evaluation boards etc. without electromagnetic disturbances from the environment.
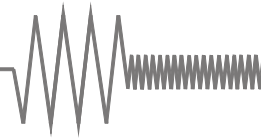
Description

MTS Systemtechnik GmbH has developed a compact and movable EMC screened 'room', to fulfil multipurpose requirements. The stable construction of the Shielding Box series MSB is predestined for high test appearance due to the easy, single-handed open-close function. The test devices can either be clamped into an universal mobile phone attachment or can be put simply into the Shielding Box. The operation of the test samples can be done by using the numerous included communication interfaces.

Characteristics

▶ Highest quality materials for extended life time and high test appearance

▶ Economical solution for high RF shielding levels and reproducible test scenarios to avoid time-consuming and expensive tests at EMC laboratories

▶ Usable for frequencies between 500 MHz to 6000 MHz, such as GSM / DCS / DECT / UMTS / LTE / RFID / ZigBee / Bluetooth / WLAN etc.

▶ USB 3.1 capable

▶ Weight optimized structure improves the mobility

▶ LAN with 10/100/1000 Mbit/s, with automatic speed detection

▶ Additional full absorber lining for interior reflection reduction (inclusive lining for top)

▶ Highest safety standards through increased slip resistance and gas prop cover holder

▶ Integrated universal attachment for most types of mobile phones and smart phones with Velcro® fastening

▶ A wide range of supply and communication interfaces are included as standard

▶ Optional interfaces and connectors to customers specifications

▶ Shielding Boxes with other dimensions can be designed according to customers individual requirements

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Configuration:

4x N to SMA connections, 3x USB 3.1, 1x LAN (10/100/1000 Mbit/s with automatic speed detection),
2x 230 V power plug, 4x fiber-optic connections and 1x universal smart phone attachment with Velcro® fastening
as well as additional full absorber lining (inclusive top cover, flat laminate absorber)

Technical data:

1   RF-specifications:

1.1	Impedance	50 Ω	
1.2	Frequency range	500 MHz – 6000 MHz	
1.3	Shielding @ closed cover (no mesh)	90 dB typ. @ 0.5 – 4.0 GHz 80 dB typ. @ 4.0 – 6.0 GHz	

2   Connectors (outside / inside):

2.1	Antenna-interface	4x	N female / SMA female
2.2	USB-interface	3x	USB 3.1 type A female / type A female, filtered
2.3	LAN-interface	1x	RJ45 8-pole female to RJ45 8-pole female, 10/100/1000 Mbit/s, filtered, with automatic speed detection
2.4	Fiber-optic-interface	4x	FSMA female / FSMA female
2.5	Ground connection		Screw M4 outside
2.6	Mains voltage supply		Power plug (IEC 60320 C14) / 2x 230 V AC power jack (CEE7/4), filtered

3   General specifications:

3.1	Power supply AC	100 V - 240 V AC, 50 Hz / 60 Hz, 1 A max. per outlet
3.2	USB 3.1	16 V DC max., 1.5 A max.
3.3	LAN	50 V DC max., 0.35 A max.
3.4	Operating temperature	+0 °C - +50 °C The equipment should not be subjected to extreme temperatures and variations in temperature.
3.5	Reference temperature for specifications	+25 °C
3.6	Dimensions (without protruding parts, like handles, connectors, etc.)	Outside: 666 x 516 x 503 (L x W x H in mm) Inside without absorber lining: 650 x 500 x 448 (L x W x H in mm) Inside: 592 x 442 x 397 (L x W x H in mm)
3.7	Surface	Aluminum chem. nickel plated (20 - 25 µm)
3.8	Weight	45.8 kg

4   Delivery package:

Shielding Box MSB-0410

1 Mains cable

1 Universal smart phone attachment

4 Antennas of type FWX-6231SAAX-999

1 Lighting bar

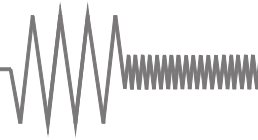CD with operation manual and configuration sheet

5   Comments:

Warranty	12 months
RoHS-compliance	Yes

6   Recommended accessories:

USB 3.1 cable type A / type A or type A / type C

Several antennas

Measurement cable assemblies

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Configuration:

4x N to SMA connections, 3x USB 3.1, 1x LAN (10/100/1000 Mbit/s with automatic speed detection),
2x 230 V power plug, 4x fiber-optic connections and 1x universal smart phone attachment with Velcro® fastening
as well as additional full absorber lining (inclusive top cover, flat laminate absorber)

Technical data:

7   Possible options:

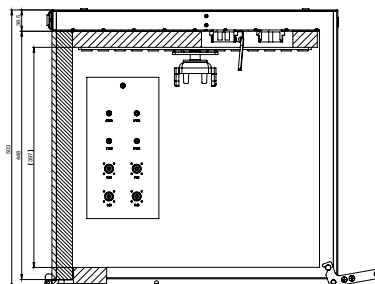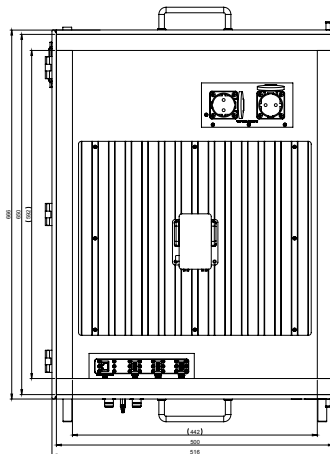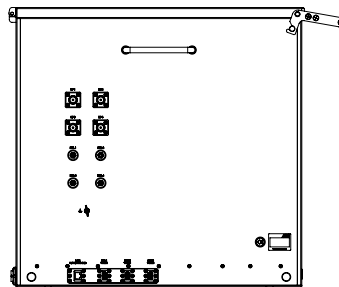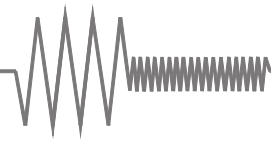|	
Additional or other RF connectors	Infrared window
VGA-interface	Locking (for padlock)
Audio-interface (XLR 3- or 5-pole or stereo jack 4-pole)	Ventilation (fan)
Ferrite absorber	More pcs. of mobile smart phone attachment with or without Velcro® fastening
	One or more pcs. of integrated touchpanel operating stylus

Views:

Shielding with closed cover: