

Shielding Box MSB-0604 (MSB-0602 MODIFIED)

MTS-No.: 28851

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.

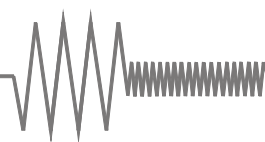
Description

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 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 3.0 capable
- ▶ An ergonomic position of the user is achieved by front side opening
- ▶ Weight optimized structure improves the mobility
- ▶ LAN with 10/100/1000 Mbit/s, PoE and PSE with automatic speed detection, power over Ethernet IEEE-802.3af/at is possible inside
- ▶ Air circulation is given by the integrated fan and honeycomb vents
- ▶ Additional absorber lining for interior reflection reduction (inclusive lining for door)
- ▶ 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 SMA connections, 1x SUBD 9-pole, 2x USB 3.0, 2x banana jack (voltage connectors), 1x LAN (10/100/1000 Mbit/s, PoE and PSE, with automatic speed detection, power over Ethernet IEEE-802.3af/at is possible inside), and 1x 230 V Harting H-A3 as well as 1x integrated fan with honeycomb vents and swivel castors and additional absorber lining (inclusive lining for door, 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)	80 dB typ. @ 0.5 – 3.0 GHz 55 dB typ. @ 3.0 – 6.0 GHz

2 Connectors (outside / inside):

2.1 Antenna-interface	4x SMA female / SMA female
2.2 Serial-interface	1x SUBD 9-pole female / SUBD 9-pole male
2.3 USB-interface	2x USB 3.0 type A female / type A female, 1x double module
2.4 LAN-interface	1x RJ45 8-pole female to RJ45 8-pole female, 10/100/1000 Mbit/s, PoE and PSE, optically filtered, with automatic speed detection, power over Ethernet IEEE-802.3af/at is possible inside
2.5 Voltage connectors (+VDC, -VDC)	2x banana jack 4 mm / banana jack 4 mm, filtered, without protection against polarity reversal
2.6 Ground connection	Screw M4 outside
2.7 Mains voltage supply	Power plug Harting EPIC H-A3 male / H-A3 female, filtered

3 General specifications:

3.1 Power supply AC	100 V - 240 V AC, 50 Hz / 60 Hz, 1 A max. @ outlet
3.2 Power supply DC	30 V max., 5 A max.
3.3 Power supply PoE	25.5 W max., exclusively inside
3.4 SUBD	50 V DC max., 1 A max.
3.5 USB 3.0	10 V DC max., 1.5 A max.
3.6 Internal power consumption	200 mA max. @ 230 V AC (no load @ PoE and outlet)

3.7 Operating temperature	-30 °C - +60 °C
3.8 Reference temperature for specifications	+25 °C
3.9 Dimensions (without protruding parts, like handles, connectors, etc.)	Outside: 547 x 484 x 483 (L x W x H in mm) Inside without antennas: 400 x 400 x 400 (L x W x H in mm) Inside without absorber: 458 x 458 x 458 (L x W x H in mm)
3.10 Surface	Aluminum chem. nickel plated (20 - 25 μ m)
3.11 Weight	36 kg

4 Delivery package:

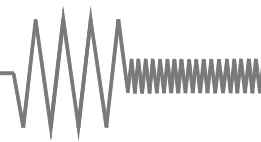
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1 Mains cable and additional connectors
4 Antennas of type SPA-2456/75/9/0/DF with RF-cable EF316D
CD with operation manual and configuration sheet

5 Comments:

Warranty	12 months
RoHS-compliance	Yes

6 Recommended accessories:

USB 3.0 cable type A / type A
Lighting bar
Several antennas
Measurement cable assemblies



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Technical data:

7 Possible options:

Additional or other RF connectors

VGA-interface

Audio-interface (XLR 3- or 5-pole or stereo jack 4-pole)

RF absorber mats

Ferrite absorber

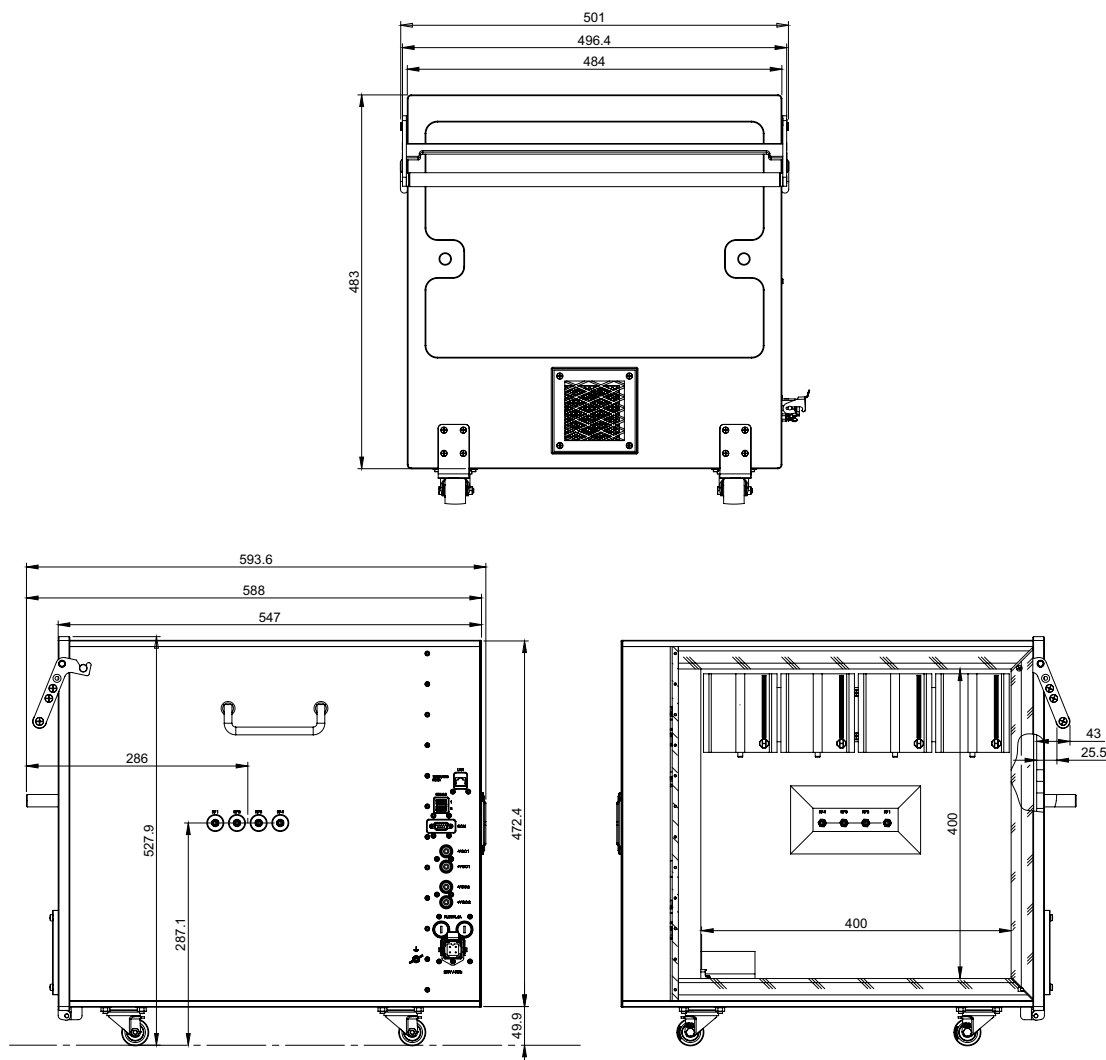
Infrared window

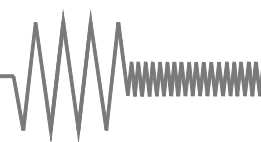
Locking (for padlock)

One or more pcs. of mobile smart phone attachment with or without Velcro® fastening

One or more pcs. of integrated touchpanel operating stylus or field of vision (244 x 244 190 x 130 L x W in mm) or rounded field of vision

Views:





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Shielding with closed cover:

