

Shielding Box MSB-0253

MTS-No.: 24787

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.

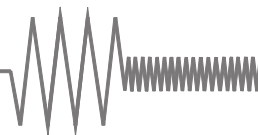
Description

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 directly through the built-in flexible wire mesh with a integrated touchpanel operating stylus or 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
- ▶ Easy operation of the test samples directly through the built-in flexible wire mesh integrated touchpanel operating stylus
- ▶ Weight optimized structure improves the mobility
- ▶ LAN with 10/100/1000 Mbit/s with automatic speed detection
- ▶ Highest safety standards through increased slip resistance and gas prop cover holder
- ▶ 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



Shielding Box MSB-0253

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Configuration:

4x N connections, 2x USB 3.0, 1x LAN (10/100/1000 Mbit/s with automatic speed detection) and 1x 230 V power plug as well as 1x integrated touchpanel operating stylus

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. @ 500 MHz – 2 GHz, 70 dB typ. @ 2 GHz – 4 GHz, 65 dB typ. @ 4 GHz – 5 GHz 55 dB typ. @ 5 GHz – 6 GHz

3.5 Reference temperature for specifications	+25 °C
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3.6 Dimensions (without protruding parts, like handles, connectors, etc.)	Outside: 418 x 268 x 163 (L x W x H in mm) Inside: 402 x 252 x 113.5 (L x W x H in mm)
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2 Connectors (outside / inside):

2.1 Antenna-interface	4x N female / N female
2.2 USB-interface	2x USB 3.0 type A female / type A female without filters, 1x double module
2.3 LAN-interface	1x RJ45 socket 8-pole to RJ45 socket 8-pole 10/100/1000 Mbit/s with automatic speed detection
2.4 Ground connection	Screw M4 outside
2.5 Mains voltage supply	Power plug (IEC 60320 C14) / 230 V AC power jack (CEE7/4), filtered

3.7 Field of vision	250 x 150 (L x W in mm)
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3.8 Surface	Aluminum chem. nickel plated (20 - 25 µm)
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3.9 Weight	10.6 kg
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3 General specifications:

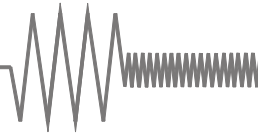
3.1 Power supply AC	100 V - 240 V AC, 50 Hz / 60 Hz, 1 A max.
3.2 USB 3.0	10 V DC max., 1.5 A max.
3.3 Internal power consumption	150 mA max. @ 230V AC
3.4 Operating temperature	+0 °C - +50 °C The equipment should not be subjected to extreme temperatures and variations in temperature.

4 Delivery package:

Shielding Box MSB-0253
1 Closed cover
1 Cover with built-in flexible wire mesh and 1x integrated touchpanel operating stylus
1 Mains cable
CD with operation manual and configuration sheet

5 Comments:

Warranty	12 months
RoHS-compliance	Yes



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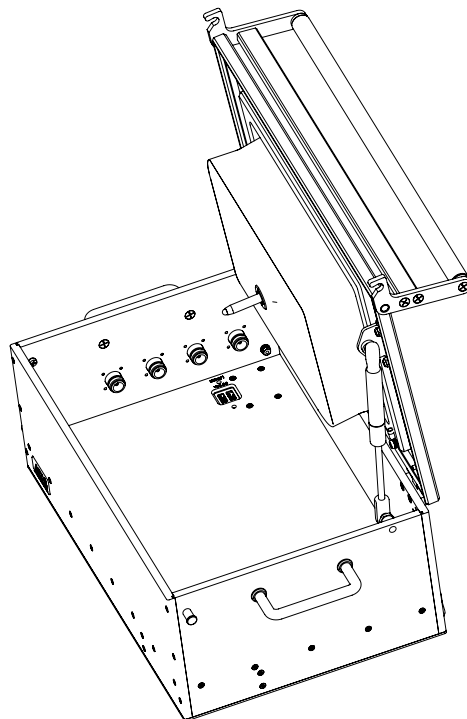
6 Recommended accessories:

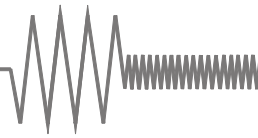
- USB 3.0 cable type A / type A
- Lighting bar
- Several antennas
- Measurement cable assemblies

7 Possible options:

- Additional or other RF connectors
- Serial-interface
- VGA-interface
- RF absorber mats
- Ferrite absorber
- Infrared window
- Locking (for padlock)
- Ventilation (fan)
- Mobile phone attachment with Velcro® fastening

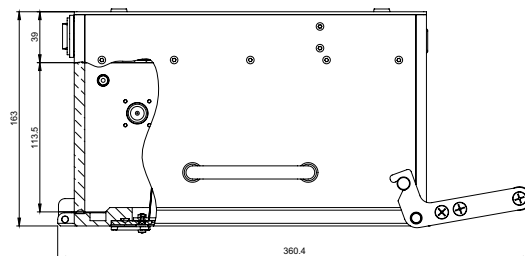
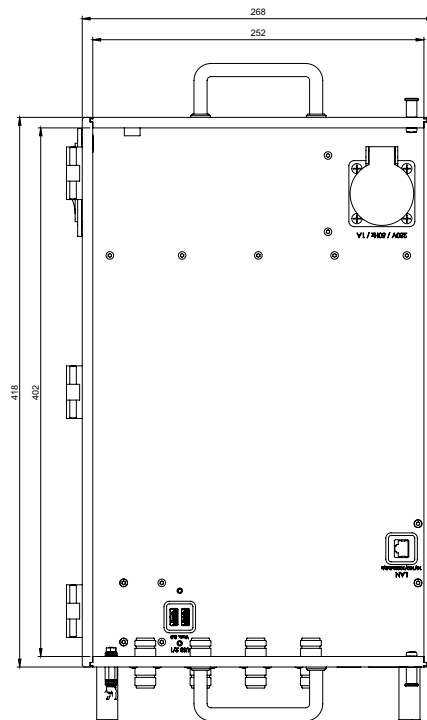
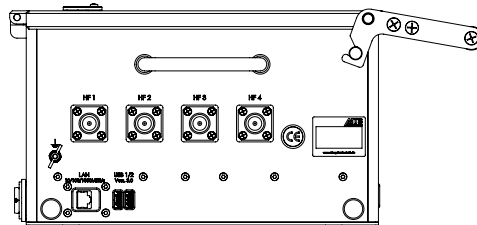
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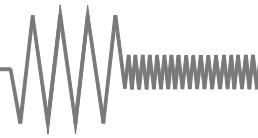




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Shielding with closed cover (without flexible wire mesh):

Mean Shielding 500 MHz - 6000 MHz

