

Shielding Box MSB-0200-Stylus

MTS-No.: 22963

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.

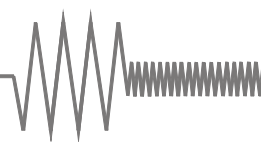
Description

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 directly through the built-in flexible wire mesh with a piece of an 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.
- ▶ Easy operation of the test samples directly through the built-in flexible wire mesh with 1x integrated touchpanel operating stylus
- ▶ Weight optimized structure improves the mobility
- ▶ Highest safety standards through increased slip resistance and gas prop cover holder
- ▶ 1x integrated universal attachment for most types of mobile phones and smart phones
- ▶ 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:

2x N connections, 2x SUBD 9-pole, 4x USB 2.0, 2x banana jack (voltage connectors),
1x 230 V power plug, 1x universal smart phone attachment 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

3.7 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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3.8 Field of vision	190 x 130 (L x W in mm)
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3.9 Operating temperature	+0 °C - +50 °C The equipment should not be subjected to extreme temperatures and variations in temperature.
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2 Connectors (outside / inside):

2.1 Antenna-interface	2x N female / N female
2.2 Serial-interface	2x SUBD 9-pole female / SUBD 9-pole male
2.3 USB-interface	4x USB 2.0 type A female / type A female, 2x double module
2.4 Voltage connectors (+VDC, -VDC)	2x banana jack 4 mm / banana jack 4 mm, filtered, with protection against polarity reversal
2.5 Ground connection	Screw M4 outside
2.6 Mains voltage supply	Power plug (IEC 60320 C14) / 230 V AC power jack (CEE7/4), filtered

3.10 Surface	Aluminum chem. nickel plated (20 - 25 µm)
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3.11 Weight	10 kg
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4 Delivery package:

Shielding Box MSB-0200-Stylus
1 Closed cover
1 Cover with built-in flexible wire mesh and 1x integrated touchpanel operating stylus
1 Mains cable
1 Universal smart phone attachment
CD with operation manual and configuration sheet

3 General specifications:

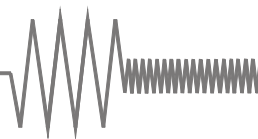
3.1 Power supply AC	100 V - 240 V AC, 50 Hz / 60 Hz, 1 A max. @ outlet
3.2 Power supply DC	30 V max., 5 A max.
3.3 SUBD	50 V DC max., 1 A max.
3.4 USB	10 V DC max., 0.5 A max.
3.5 Operating temperature	+0 °C - +50 °C The equipment should not be subjected to extreme temperatures and variations in temperature.
3.6 Reference temperature for specifications	+25 °C

5 Comments:

Warranty	12 months
RoHS-compliance	Yes

6 Recommended accessories:

USB 2.0 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

LAN-interface filtered by optical media converter

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

RF absorber mats

Ferrite absorber

Infrared window

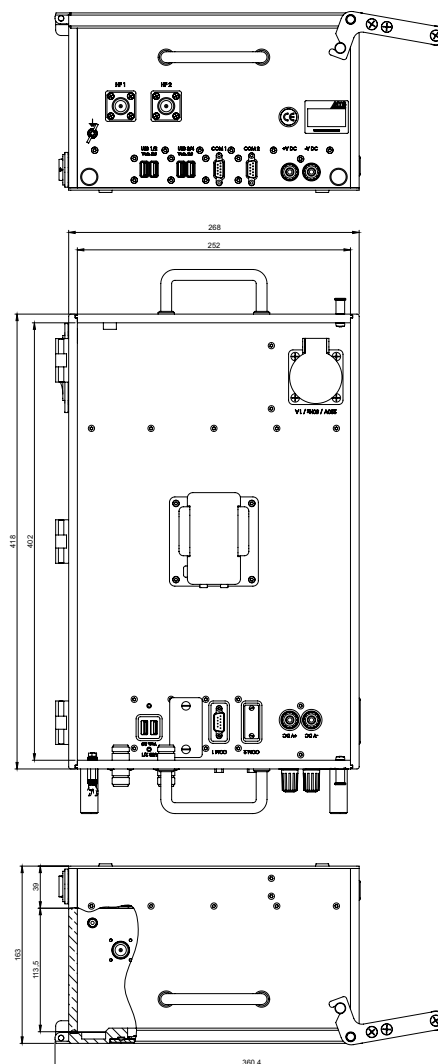
Locking (for padlock)

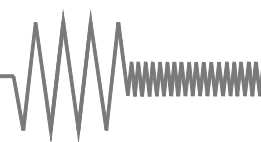
Ventilation (fan)

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 (190 x 130 L x W in mm)
or rounded field of vision (220 diameter in mm)

Views:





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Shielding with closed cover (without flexible wire mesh):

Mean Shielding 500 MHz - 6000 MHz

