

## Shielding Box MSB-0035-5G

MTS-No.: 26907-01

### 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.

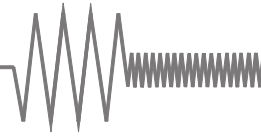
### Description

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 700 MHz to 4200 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
- ▶ LAN with 2500/5000/10000 Mbit/s with automatic speed detection
- ▶ Additional absorber lining of type AN-75 (plus attached absorber lining for top cover)
- ▶ 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



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### Configuration:

4x N connections, 1x SUBD 9-pole, 2x USB 2.0, 2x USB 3.1 gen. 1, 1x VGA-interface, 1x LAN (10/100/1000 Mbit/s with automatic speed detection), 2x LAN (2500/5000/10000 Mbit/s with automatic speed detection) and 1x 230 V power plug as well as absorber lining (plus attached absorber lining for top cover)

### Technical data:

#### 1 RF-specifications:

1.1 Impedance	50 $\Omega$
1.2 Frequency range	700 MHz – 4200 MHz
1.3 Shielding @ closed cover (no mesh)	60 dB typ. @ 1000 MHz – 3000 MHz

3.6 Operating temperature	+0 °C - +50 °C The equipment should not be subjected to extreme temperatures and variations in temperature.
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3.7 Reference temperature for specifications	+25 °C
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#### 2 Connectors (outside / inside):

2.1 Antenna-interface	4x N female / N female
2.2 Serial-interface	1x SUBD 9-pole female / SUBD 9-pole male
2.3 USB-interface	2x USB 3.1 gen. 1 type A female / type A female, filtered
2.4 USB-interface	2x USB 2.0 type A female / type A female, 1x double module
2.5 LAN-interface	1x RJ45 8-pole female to RJ45 8-pole female 10/100/1000 Mbit/s with automatic speed detection
2.6 LAN-interface	2x RJ45 8-pole female to RJ45 8-pole female 2500/5000/10000 Mbit/s with automatic speed detection
2.7 VGA-interface	1x SUBD 15-pole female / SUBD 15-pole female, partly filtered (3 rows)
2.8 Ground connection	Screw M4 outside
2.9 Mains voltage supply	Power plug (IEC 60320 C14) / 230 V AC power jack (CEE7/4), filtered

3.8 Dimensions (without protruding parts, like handles, connectors, etc.)	Outside: 666 x 466 x 223.7 (L x W x H in mm) Inside approximately with absorbers: 592 x 392 x 139/109 (L x W x H in mm, without/with absorber lining @ top cover)
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3.9 Field of vision	294 x 294 (L x W in mm)
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3.10 Surface	Aluminum chem. nickel plated (20 - 25 $\mu$ m)
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3.11 Weight	27 kg
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#### 4 Delivery package:

Shielding Box MSB-0035-5G  
Absorber lining for top cover attached  
Closed cover  
Cover with built-in tight wire mesh  
Mains cable  
4 Antennas of type YWX-6231SAHX-350 with adapter N to SMA  
CD with operation manual and configuration sheet

#### 5 Comments:

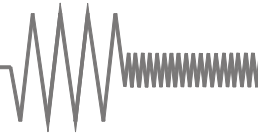
Warranty	12 months
RoHS-compliance	Yes

#### 6 Recommended accessories:

USB 3.1 gen. 1 cable type A / type A  
Lighting bar  
Several antennas  
Measurement cable assemblies

#### 3 General specifications:

3.1 Power supply AC	100 V - 240 V AC, 50 Hz / 60 Hz, 1 A max.
3.2 SUBD	50 V DC max., 1 A max.
3.3 USB 3.1 gen. 1	Supported current 1.5 A
3.4 USB	10 V DC max., 0.5 A max.
3.5 Internal power consumption	200 mA max. @ 230 V AC



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### Technical data:

#### 7 Possible options:

Additional or other RF connectors

Locking (for padlock)

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

Ventilation (fan)

Ferrite absorber

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

Infrared window

One or more pcs. of integrated touchpanel operating stylus

### Views:

