

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.

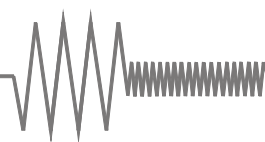
Description

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 for interior reflection reduction (inclusive attached lining for top)
- ▶ 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-0035-5G

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Configuration:

4x N connections, 1x SUBD 9-pole, 2x USB 2.0, 2x USB 3.1 gen. 1, 1x LAN (10/100/1000 Mbit/s with automatic speed detection), 2x LAN (2500/5000/10000 Mbit/s with automatic speed detection), 1x SUB-D 15-pole 3 rows and 1x 230 V power plug as well as additional absorber lining (inclusive attached lining for top, flat laminate absorber)

Technical data:

1 RF-specifications:

1.1 Impedance	50 Ω
1.2 Frequency range	700 MHz – 4200 MHz
1.3 Shielding @ closed cover (no mesh)	100 dB typ. @ 0.7 – 3.5 GHz 85 dB typ. @ 3.5 – 4.2 GHz

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, (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 without absorber: 650 x 450 x 168.5 (L x W x H in mm) Inside: 592 x 392 x 139 / 110 (L x W x H in mm, H without / with top absorber)
3.9 Field of vision	294 x 294 (L x W in mm)
3.10 Surface	Aluminum chem. nickel plated (20 - 25 μ m)
3.11 Weight	27 kg

4 Delivery package:

Shielding Box MSB-0035-5G
1 Closed cover
1 Cover with built-in tight wire mesh
1 Mains cable
1 Attached absorber lining for top
4 Antennas of type FWX-6231SAAX-999 with adapter N to SMA
4x USB 3.0 gen 1 cable 0.5 m (2x A/A + 2x A/C)
CD with operation manual and configuration sheet

3 General specifications:

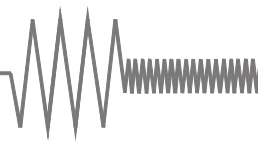
3.1 Power supply AC	100 V - 240 V AC, 50 Hz / 60 Hz, 0.8 A max. @ outlet
3.2 SUBD	50 V DC max., 1 A max.
3.3 USB 3.1 gen. 1	Supported current 1.5 A
3.4 USB	10 V DC max., 0.5 A max.
3.5 Internal power consumption	200 mA max. @ 230 V AC

5 Comments:

Warranty	12 months
RoHS-compliance	Yes

6 Recommended accessories:

Lighting bar
Measurement cable assemblies



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Technical data:

7 Possible options:

Additional or other RF connectors

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

Ferrite absorber

Infrared window

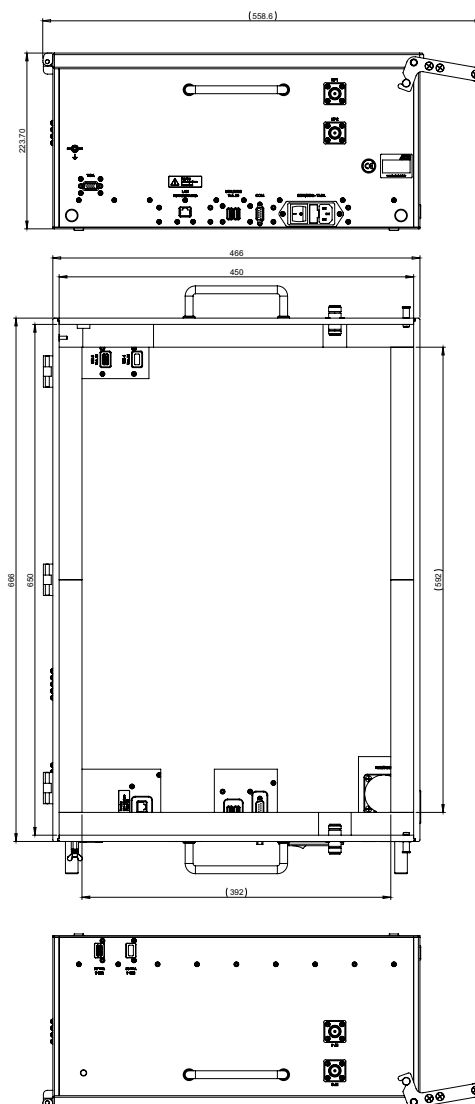
Locking (for padlock)

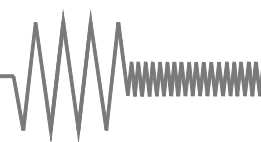
Ventilation (fan)

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

One or more pcs. of integrated touchpanel operating stylus or rounded field of vision (220 diameter in mm)

Views:





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Shielding with closed cover (without flexible wire mesh):

