

Shielding Box MSB-0403

MTS-No.: 27894-01

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.

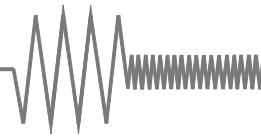
Description

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 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 3.1 capable
- ▶ Weight optimized structure improves the mobility
- ▶ LAN with 10/100/1000 Mbit/s, with automatic speed detection
- ▶ Additional full absorber lining for interior reflection reduction (inclusive 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



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Configuration:

3x SMA connections with extension, 2x N connections, 2x BNC connections, 2x SUBD 9-pole, 2x USB 3.1, 4x banana jack (voltage connectors), 1x LAN (10/100/1000 Mbit/s with automatic speed detection), 1x 230 V power plug as well as additional full absorber lining (inclusive top cover, pyramidal absorber) and 2x pipe 0.75 inch with male thread

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)	100 dB typ. @ 0.5 – 4.5 GHz 90 dB typ. @ 4.5 – 6.0 GHz

3.6 Operating temperature	+0 °C - +50 °C The equipment should not be subjected to extreme temperatures and variations in temperature.
3.7 Reference temperature for specifications	+25 °C

2 Connectors (outside / inside):

2.1 Antenna-interface	3x SMA female / SMA female
2.2 Antenna-interface	2x N female / N female
2.3 Antenna-interface	2x BNC female / BNC female
2.4 Serial-interface	2x SUBD 9-pole female / SUBD 9-pole male
2.5 USB-interface	2x USB 3.1 type A female / type A female, filtered
2.6 LAN-interface	1x RJ45 8-pole female to RJ45 8-pole female, 10/100/1000 Mbit/s, optically filtered, with automatic speed detection
2.7 Voltage connectors (+VDC, -VDC)	4x banana jack 4 mm / banana jack 4 mm, filtered, without protection against polarity reversal
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 516 x 503 (L x W x H in mm) Inside without absorber lining: 650 x 500 x 448 (L x W x H in mm) Inside: 475 x 325 x 280 (L x W x H in mm)
3.9 Pipe with male thread	0.75, 120 (diameter in inch x L in mm)
3.10 Surface	Aluminum chem. nickel plated (20 - 25 μm)
3.11 Weight	48.6 kg

3 General specifications:

3.1 Power supply AC	100 V - 240 V AC, 50 Hz / 60 Hz, 1 A max.
3.2 Power supply DC	30 V max., 5 A max.
3.3 SUBD	50 V DC max., 1 A max.
3.4 USB 3.1	16 V DC max., 1.5 A max.
3.5 Internal power consumption	100 mA max. @ 230 V AC

4 Delivery package:

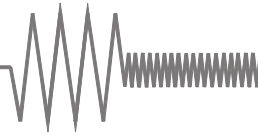
Shielding Box MSB-0403
1 Closed cover
1 Mains cable
CD with operation manual and configuration sheet

5 Comments:

Warranty	12 months
RoHS-compliance	Yes

6 Recommended accessories:

USB 3.1 cable type A / type A or type A / type C
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)

Ferrite absorber

Infrared window

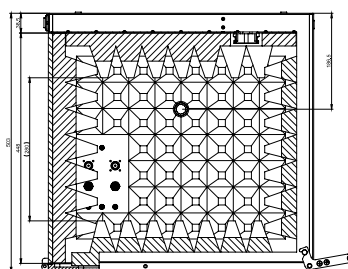
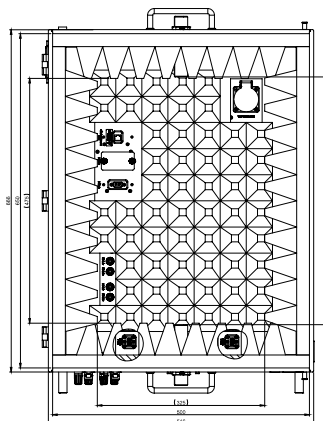
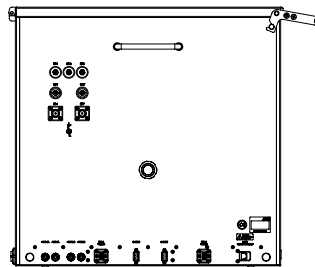
Locking (for padlock)

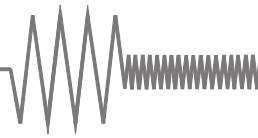
Ventilation (fan)

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

One or more pcs. of integrated touchpanel operating stylus

Views:





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Shielding with closed cover (without flexible wire mesh):

