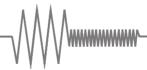


MTS-No.: 20891-02



Shielding Box MSB-0100

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 or by using the numerous included communication interfaces.



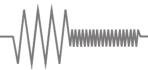
Characteristics

- ► 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 4000 MHz, such as GSM / DCS / DECT / UMTS / LTE / RFID / ZigBee / Bluetooth / WLAN etc. (up to 6000 MHz on request)
- ▶ USB 3.0 capable
- Easy operation of the test samples directly through the built-in flexible wire mesh
- An ergonomic position of the user is achieved by front side opening
- 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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Delivery package: Shielding Box MSB-0100

USB 3.0 cable type A / type A

Shielding Box MSB-0100

Configuration:

2x N connections, 2x SUBD 9-pole, 4x USB 3.0, 2x banana jack (voltage connectors) and 1x 230 V power plug as well as 1x universal smart phone attachment

Technical data:

2.1 Antenna-interface

Voltage connectors

RF-specifications:

Impedance 3.9 Surface Aluminum chem. nickel plated

(20 - 25 µm) 500 MHz - 4000 MHz 1.2 Frequency range

(up to 6000 MHz on request) 3.10 Weight 9.6 kg

1.3 Shielding @ closed 90 dB typ. @ 500 MHz - 2 GHz, cover (no mesh) 70 dB typ. @ 2 GHz – 4 GHz

2x

Connectors (outside / inside): 2

1 Closed cover

1 Cover with built-in flexible wire mesh 2.2 Serial-interface SUBD 9-pole female /

1 Mains cable SUBD 9-pole male

N female / N female

1 Universal mobile smart phone attachment 2.3 USB-interface USB 3.0 type A female /

modified type A female, CD with operation manual and configuration sheet 2x double module

banana jack 4 mm / Comments: (+VDC, -VDC) banana jack 4 mm,

filtered, with protection Warranty 12 months against polarity reversal RoHS-compliance

2.5 Ground connection Screw M4 outside

2.6 Mains voltage supply Power plug (IEC 60320 C14) / Recommended accessories: 6

230 V AC power jack (CEE7/4), filtered

General specifications: 3

Several antennas 100 V - 240 V AC. 3.1 Power supply AC

Measurement cable assemblies 50 Hz / 60 Hz, 1 A max.

3.2 Power supply DC 30 V max., 5 A max.

Possible options: 3.3 SUBD 50 V DC max., 1 A max.

Additional or other RF connectors 3.4 USB 3.0 10 V DC max., 1.5 A max.

+0 °C - +50 °C 3.5 Operating LAN-interface filtered by optical media converter temperature The equipment should not be

subjected to extreme

VGA-interface

Lighting bar

Audio-interface (XLR 3- or 5-pole or stereo jack 4-pole) temperatures and variations in

Locking (for padlock)

temperature. RF absorber mats 3.6 Reference +25 °C Ferrite absorber

temperature for Infrared window specifications

Outside: 418 x 268 x 172.3

(without protruding (L x W x H in mm) Ventilation (fan) parts, like handles, Inside: 402 x 251 x 128.6 connectors, etc. One or more pcs. of mobile smart phone attachment (L x W x H in mm)

with or without Velcro® fastening 3.8 Field of vision 190 x 130 (L x W in mm) One or more pcs. of integrated touchpanel operating stylus

or rounded field of vision (220 diameter in mm)



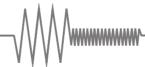
Technical subject to change

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3.7 Dimensions

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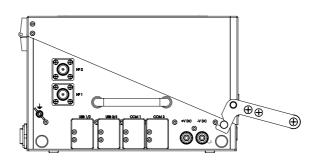


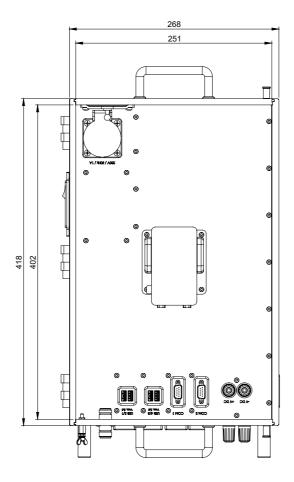


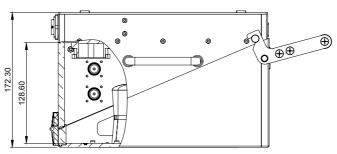
Shielding Box MSB-0100

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Shielding Box MSB-0100

MTS-No.: 20891-02

Shielding with closed cover (without flexible wire mesh):

Mean Shielding 500 MHz - 4000 MHz

