

Shielding Box MSB-0335

MTS-No.: 31059

Page 1 from 4

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 / LTE+ / 5G / RFID / ZigBee / Bluetooth / Wi-Fi etc.
- ▶ USB 3.1 capable with up to 10 Gbit/s
- ▶ LAN with up to 1 Gbit/s
- ▶ Weight optimized structure improves the mobility
- ▶ Cover locking (by padlock)
- ▶ 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-0335

MTS-No.: 31059

Page 2 from 4

Configuration:

2x N/N connections, 1x SUBD 9-pole, 1x USB 3.1 (10 Gbit/s), 4x USB 2.0, 1x LAN (1 Gbit/s), 4x banana jack (voltage connectors) and 1x 230 V power plug as well as cover locking for padlock

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, no shielded window)	80 dB typ. @ 500 MHz – 2 GHz 60 dB typ. @ 2 GHz – 4 GHz 55 dB typ. @ 4 GHz – 5 GHz 50 dB typ. @ 5 GHz – 6 GHz

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

3.8 Reference temperature for specifications	+25 °C
--	--------

2 Connectors (outside / inside):

2.1 Antenna-interface	2x N female / N female
2.2 Serial-interface	1x SUBD 9-pole female / SUBD 9-pole male
2.3 USB-interface	1x USB 3.1 type A female / type A female, 10 Gbit/s, ESD protection & filtered
2.4 USB-interface	4x USB 2.0 type A female / type A female, 2x double module
2.5 LAN-interface	1x RJ45 8-pole female / RJ45 8-pole female, 1 Gbit/s, filtered
2.6 Voltage connectors (+VDC, -VDC)	4x banana jack 4 mm / banana jack 4 mm, filtered, with protection against polarity reversal by module
2.7 Ground connection	Screw M4 outside
2.8 Mains voltage supply	Power plug (IEC 60320 C14) / 230 V AC power jack (CEE7/3), filtered

3.9 Dimensions (without protruding parts, like handles, connectors, etc.)	Outside: 666 x 466 x 223.7 (L x W x H in mm) Inside: 650 x 450 x 168.5 (L x W x H in mm)
---	---

3.10 Surface	Aluminum chem. nickel plated (20 - 25 μm)
--------------	---

3.11 Weight	24.6 kg
-------------	---------

4 Delivery package:

Shielding Box MSB-0335
Mains cable
CD with operation manual and configuration sheet

5 Comments:

Warranty	12 months
RoHS-compliance	Yes

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 3.1	16 V DC max., 1.5 A max.
3.5 USB	10 V DC max., 0.5 A max.
3.6 LAN	50 V DC max., 0.35 A max.

6 Recommended accessories:

USB 3.1 cable type A / type A or type A / type C
USB 2.0 cable type A / type A
Lighting bar
Several antennas
Measurement cable assemblies

Shielding Box MSB-0335

MTS-No.: 31059

Page 3 from 4

Configuration:

2x N/N connections, 1x SUBD 9-pole, 1x USB 3.1 (10 Gbit/s), 4x USB 2.0, 1x LAN (1 Gbit/s), 4x banana jack (voltage connectors) and 1x 230 V power plug as well as cover locking for padlock

Technical data:

7 Possible options:

Additional or other RF connectors

VGA-interface

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

RF absorber mats

Ferrite absorber

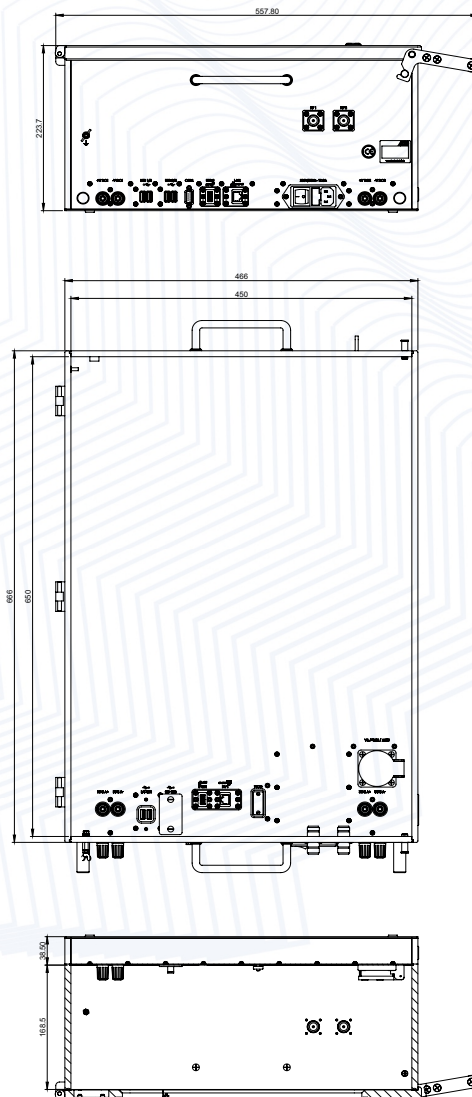
Infrared window

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 or rounded field of vision

Views:



Shielding Box MSB-0335

MTS-No.: 31059

Page 4 from 4

Shielding with closed cover (w/ or w/o triple tight wire mesh):

