

Shielding Box MSB-0292-ABS-S1

MTS-No.: 31017

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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 3.2 capable with up to 20 Gbit/s
- ▶ LAN with up to 1 Gbit/s
- ▶ Weight optimized structure improves the mobility
- ▶ Additional 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:

2x SMA/SMA connections, 4x USB 3.2 (20 Gbit/s), 1x LAN (1 Gbit/s), 2x banana jack (voltage connectors) and 1x 230 V power plug as well as additional absorber lining (inclusive lining for top, flat laminate absorber)

Technical data:

1 RF-specifications:

1.1 Impedance	50 Ω	3.5 Operating temperature	+0 °C - +50 °C The equipment should not be subjected to extreme temperatures and variations in temperature.
1.2 Frequency range	500 MHz - 6000 MHz	3.6 Reference temperature for specifications	+25 °C
1.3 Shielding @ complete solid cover	105 dB typ. @ 0.5 – 3.5 GHz 95 dB typ. @ 3.5 – 6.0 GHz	3.7 Dimensions (without protruding parts, like handles, connectors, etc.)	Outside: 418 x 268 x 319 (L x W x H in mm) Inside: 402 x 252 x 263.5 (L x W x H in mm, without absorber) Inside: 344 x 194 x 211 (L x W x H in mm)

2 Connectors (outside / inside):

2.1 Antenna-interface	2x SMA female / SMA female	3.8 Surface	Aluminum chem. nickel plated (20 - 25 μ m)
2.2 USB-interface	4x USB 3.2 type C female / type C female, 20 Gbit/s, ESD protection & filtered	3.9 Weight	16.2 kg
2.3 LAN-interface	1x RJ45 8-pole female / RJ45 8-pole female, 1 Gbit/s, filtered	4 Delivery package:	Shielding Box MSB-0292-ABS-S1 Mains cable CD with operation manual and configuration sheet
2.4 Voltage connectors (+VDC, -VDC)	2x banana jack 4 mm / banana jack 4 mm, filtered, without protection against polarity reversal	5 Comments:	Warranty 12 months RoHS-compliance Yes
2.5 Ground connection	Screw M4 outside	6 Recommended accessories:	USB 3.2 cable type A / type C or type C / type C Lighting bar Several antennas Measurement cable assemblies
2.6 Mains voltage supply	Power plug (IEC 60320 C14) / 230 V AC power jack (CEE7/3), filtered		

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	50 V max., 10 A max.
3.3 USB 3.2	20 V DC max., 5.0 A max.
3.4 LAN	50 V DC max., 0.35 A max.

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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

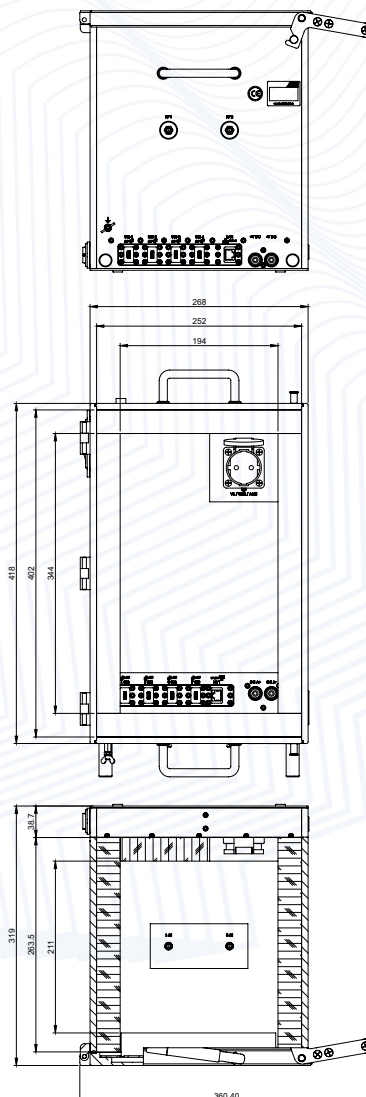
Ventilation (fan)

Locking (for padlock)

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:



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Shielding with closed cover (complete solid cover):

