

Shielding Box MSB-0053

MTS-No.: 27015

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.

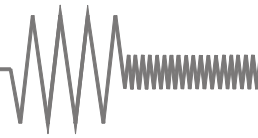
Description

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 4500 MHz, such as GSM / DCS / DECT / UMTS / LTE / RFID / ZigBee / Bluetooth / WLAN etc. (up to 6000 MHz on request)
- ▶ An ergonomic position of the user is achieved by front side opening
- ▶ Weight optimized structure improves the mobility
- ▶ 19" rack mount case with 12 HU and front door (opening on the left-hand side on request)
- ▶ 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-0053

MTS-No.: 27015

Configuration:

1x N / SMA connections, 2x SMA / SMA connections, 2x ST LWL connection, 2x FSMA LWL connection, 2x SUBD 9-pole, 3x SUBD 25-pole, 2x USB 2.0, Door-switch-interface (exclusively at right-hand side opening) and 1x 230 V power plug to 6x power outlet

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 – 4500 MHz (up to 6000 MHz on request)	3.6 Reference temperature for specifications	+25 °C
1.3 Shielding @ closed cover (no mesh)	80 dB typ. @ 500 MHz – 1000 MHz 60 dB typ. @ 1000 MHz – 4500 MHz		

2 Connectors (outside / inside):

2.1 Antenna-interface	2x SMA female / SMA female
2.2 Antenna-interface	1x N female / SMA female
2.3 Serial-interface	2x SUBD 9-pole male / SUBD 9-pole female
2.4 Parallel-interface	3x SUBD 25-pole male / SUBD 25-pole female
2.5 USB-interface	2x USB 2.0 type A female / type A female 1x double module
2.6 LWL-interface	2x ST female / ST female 2x FSMA female / FSMA female
2.7 Door-switch-interface (exclusively at right-hand side opening)	1x SUBD 9-pole male
2.8 Ground connection	Screw M4 outside
2.9 Mains voltage supply	Power plug (IEC 60320 C14) / 230 V AC power jack socket (6x CEE7/4), filtered

3 General specifications:

3.1 Power supply AC	100 V - 240 V AC, 50 Hz / 60 Hz, 1 A max.
3.2 Power supply for door-switch-interface	6 V max., 1 A max.
3.3 SUBD	50 V DC max., 1 A max.
3.4 USB	10 V DC max., 0.5 A max.

3.7 Dimensions (without protruding parts, like handles, connectors, etc.)	Door and front cover: 19.4 x 482.6 (19 ") x 532.6 (12 HU), (L to front x W x H in mm) Outside without front: 591 x 426 x 446 (L to rear x W x H in mm) Inside: 524 x 410 x 430 (L x W x H in mm)
3.8 Surface	Aluminum chem. nickel plated (20 - 25 μm)
3.9 Weight	21.0 kg

4 Delivery package:

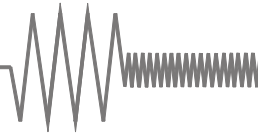
Shielding Box MSB-0053
1 Closed cover
1 Mains cable
1 Short circuit jack for door-switch-interface
CD with operation manual and configuration sheet

5 Comments:

Warranty 12 months
RoHS-compliance Yes

6 Recommended accessories:

USB 2.0 cable type A / type A
Several antennas
Measurement cable assemblies



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Technical data:

7 Possible options:

Additional or other RF connectors	Ferrite absorber
VGA-interface	Infrared window
LAN-interface filtered by optical media converter	Locking (for padlock)
Audio-interface (XLR 3- or 5-pole or stereo jack 4-pole)	Ventilation (fan)
RF absorber mats	One or more pcs. of mobile smart phone attachment with Velcro® fastening

Views:

