

Shielding Box MSB-0035-VGA-LAN

MTS-No.: R59.61.0035-01

Application

For measurements and tests of notebook computers or larger evaluation boards etc. without electromagnetic disturbances from the environment.

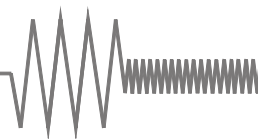
Description

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 operation of the test sample can be done after connecting a keyboard and a monitor external over the built-in VGA and USB interface. The wire mesh window allows to view the test sample and improves the heat removal.



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 700 MHz to 4200 MHz, such as GSM / DCS / DECT / UMTS / RFID / ZigBee / Bluetooth / WLAN etc.
- ▶ With LAN-interface media converters 100BaseTX to -FX and from 100BaseFX back to -TX.
(Power over Ethernet IEEE-802.3af is possible)
- ▶ Weight optimized structure improves the mobility
- ▶ Highest safety standards through increased slip resistance and gas prop cover holder
- ▶ Optional: interfaces and connectors to customers specifications
- ▶ Shielding Boxes with other dimensions can be designed according to customers individual requirements



Shielding Box MSB-0035-VGA-LAN

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Configuration:

2 x N connections, 1 x SUB-D 9-pole (RS-232), 2 x USB 2.0, 1 x VGA, 1 x LAN and 1 x 230 V power plug

Technical data:

1 RF-specifications:

- | | |
|---------------------|----------------------------|
| 1.1 Impedance | 50 Ω |
| 1.2 Frequency range | 700 MHz – 4200 MHz |
| 1.3 Shielding | 60 dB typ. @ 1 GHz – 3 GHz |

2 Connections (outside / inside):

- | | |
|--------------------------|---|
| 2.1 Antenna interface | 2x N-female / N-female |
| 2.2 Serial interface | 1x SUB-D 9-pole female /
SUB-D 9-pole male |
| 2.3 USB interface | 2x USB 2.0 type A female /
type A female |
| 2.4 VGA interface | 1x SUB-D 15-pole female /
SUB-D 15-pole female |
| 2.5 LAN interface | 1 x RJ45 jack 8-pole /
RJ45 jack 8-pole |
| 2.6 Ground connection | Screw M4 (only outside) |
| 2.7 Mains voltage supply | Power plug (IEC 60320 C14) /
230 V AC power jack (CEE7/4),
filtered |

3 General specifications:

- | | |
|---|---|
| 3.1 Power supply | 230 V AC at 50 Hz |
| 3.2 Operating temperature | +0 °C - +50 °C |
| 3.3 Reference temperature for specifications | +25 °C |
| 3.4 Dimensions (without protruding parts, like handles, connectors, etc.) | Outside: 666 x 466 x 224
(LxWxH in mm)
Inside: 650 x 450 x 168
(LxWxH in mm) |
| 3.5 Surface | Aluminium chemical nickel-plated (20 - 25 µm) |
| 3.6 Weight | Approx. 25 kg |

4 Delivered parts:

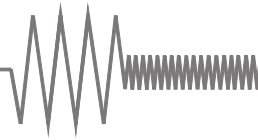
- Shielding Box MSB-0035-VGA-LAN
- 1 Closed cover
- 1 Cover with built-in wire mesh
- 1 Mains cable
- Metallic covers for interfaces
- Operation manual and configuration sheet on CD

5 Comments:

- | | |
|-----------------|-----------|
| Warranty | 12 months |
| RoHS-compliance | Yes |

6 Recommended accessories:

- Data cables USB-cable type A / type A
- Lighting bar
- Stripe antenna
- Measurement cable assemblies



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Views:

