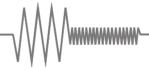


MTS-No.: 26818



Shielding Box Unit MSBU-3CA-4HU-1DOOR

Application

The Shielding Box Unit can be used for measurements and tests of electronic devices such as mobile phones, evaluation boards etc. without electromagnetic disturbances from the environment.

Description

MTS Systemtechnik GmbH has developed a compact EMC screened rack mount chassis, to fulfil multipurpose requirements. The stable construction of the Shielding Box Unit series MSBU is predestined for industrial long term tests. To offer a maximum of flexibility and usability the Shielding Box Unit is built with three independent shielding cabinets, each with RF- and communication interfaces. Therefore it is possible to use the unit for different tests or by different users at the same time The operation of the test samples can be done by using the included communication interfaces independently for each chamber.



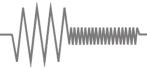
Characteristics

- 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.
- ▶ USB 3.0 capable
- An ergonomic position of the user is achieved by front side opening
- Weight optimized structure improves the mobility

- 19" rack mount case with 4 HU
- A wide range of supply and communication interfaces are included as standard
- Optional interfaces and connectors to customers specifications
- Shielding Box Units or Shielding Boxes with other dimensions can be designed according to customers individual requirements



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Shielding Box Unit MSBU-3CA-4HU-1DOOR

Configuration:

3 individual shielding cabinets, 6x N connection (2 for each cabinet), 3x SUBD 25-pole (1 for each cabinet) 6x USB 2.0 (2 for each cabinet), 6x USB 3.0 (2 for each cabinet), 6x banana jack (voltage connectors, 2 for each cabinet)

Technical data:

1 **RF-specifications:**

Impedance 3.7 Dimensions Outside: 19" x 4 HU x 315 mm / (without protruding 19" x 4 HU x 248 mm 1.2 Frequency range 500 MHz - 4000 MHz parts, like handles, (with / without modules) connectors, etc. (LxHxW)

Connectors (outside / inside): 2

Inside: 3 cabinets with each 120 mm x 132 mm x 2.1 Antenna-interface 6x N female / SMA female 220 mm (L x H x W) (2 for each cabinet) 3.8 Surface Aluminum chem. nickel plated SUBD 25-pole female / 2.2 Parallel-interface (20 - 25 µm)

SUBD 25-pole male 3.9 Weight 13 kg (1 for each cabinet)

2.3 USB-interface USB 2.0 type A female /

Delivery package: type A female 3x double module Shielding Box Unit MSBU-3CA-4HU-1DOOR (1 module for each cabinet) CD with operation manual and configuration sheet

USB 3.0 type A female / 2.4 USB-interface modified type A female 5 Comments: without filters,

banana jack 4 mm /

3x double module Warranty 12 months (1 module for each RoHS-compliance cabinet) Yes

2.5 Voltage connectors (+VDC, -VDC) banana jack 4 mm Recommended accessories: filtered, with protection

against polarity reversal by USB cable type A / type A pairs (1 pair for each Lighting bar cabinet)

Several antennas (e. g. YWX-6141SAXX) 2.6 Ground connection Screw M4 outside Measurement cable assemblies (e. g. EF400-55-150)

3 **General specifications:** Possible options:

30 V max., 5 A max. Additional or other RF connectors 3.1 Power supply DC

VGA-interface 3.2 SUBD 50 V DC max., 1 A max.

LAN-interface filtered by optical media converter 3.3 USB 10 V DC max., 0.5 A max.

3.4 USB 3.0 10 V DC max., 1.5 A max. Audio-interface (XLR 3- or 5-pole or stereo jack 4-pole)

> +0 °C - +50 °C RF absorber mats The equipment should not be

Ferrite absorber

subjected to extreme temperatures and variations in Infrared window temperature.

Locking (for padlock) +25 °C 3.6 Reference Ventilation (fan) temperature for specifications

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3.5 Operating

temperature

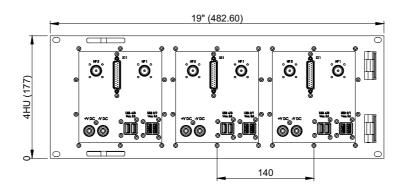


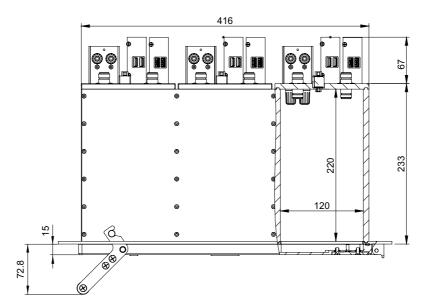


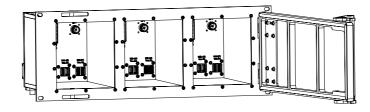
Shielding Box Unit MSBU-3CA-4HU-1DOOR

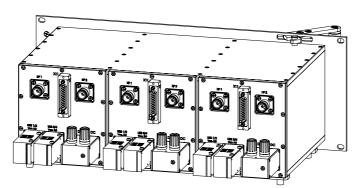
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