

Shielding Box MSB-0074-FLABS-FAN

MTS-No.: 29953

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.

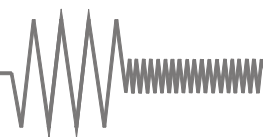
Description

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 700 MHz to 6000 MHz, such as GSM / DCS / DECT / UMTS / LTE / RFID / ZigBee / Bluetooth / WLAN etc.
- ▶ USB 3.1 capable
- ▶ An ergonomic position of the user is achieved by front side opening
- ▶ Weight optimized structure improves the mobility
- ▶ 19" rack mount case with 18 HU and front door (opening on the right-hand side on request)
- ▶ LAN with 10/100/1000 Mbit/s with automatic speed detection (logically separated, LAN 1 has no connection to LAN 2)
- ▶ Air circulation is given by the integrated fan and honeycomb vents
- ▶ Additional absorber lining for interior reflection reduction (inclusive attached lining for door)
- ▶ Shelf consisting of one layer
- ▶ 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-0074-FLABS-FAN

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Configuration:

4x N connections, 2x USB 3.1, 2x logically separated LAN (10/100/1000 Mbit/s with automatic speed detection), 6x feedthrough for fiber-optic and 1x 230 V power plug, 2x integrated fan with switch and 2x honeycomb vent, as well as additional absorber lining (inclusive lining for door, flat laminate absorber) and shelf consisting of one layer

Technical data:

1 RF-specifications:

1.1 Impedance	50 Ω
1.2 Frequency range	700 MHz – 6000 MHz
1.3 Shielding	75 dB typ.

3.7 Dimensions (without protruding parts, like handles, connectors, etc.)	Outside (with / without modules): 522 / 502 x 482.6 (19") x 798.5 (18HU) (L x W x H in mm) Inside without absorber: 473 x 410 x 726.6 (L x W x H in mm)
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2 Connectors (outside / inside):

2.1 Antenna-interface	4x N female / N female
2.2 USB-interface	2x USB 3.1 type A female / type A female, filtered
2.3 LAN-interface	2x RJ45 8-pole female / RJ45 8-pole female, 10/100/1000 Mbit/s, filtered, with automatic speed detection (logically separated, by LAN 1 to LAN 1 resp. LAN 2 to LAN 2)

3.8 Surface	Aluminum chem. nickel plated (20 - 25 μ m)
3.9 Weight	45.2 kg

2.4 Feedthrough for fiber-optic	6x \varnothing 6mm hole
2.5 Ground connection	Screw M4 outside
2.6 Mains voltage supply	Power plug (IEC 60320 C14) / 230 V AC power jack (CEE7/3), filtered

4 Delivery package:

Shielding Box MSB-0074-FLABS-FAN
1 Closed cover
1 Shelf consisting with 1 layer
1 Mains cable
CD with operation manual and configuration sheet

3 General specifications:

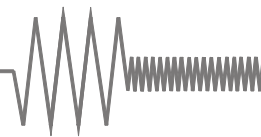
3.1 Power supply AC	100 V - 240 V AC, 50 Hz / 60 Hz, 3 A max. @ outlet
3.2 USB 3.1	16 V DC max., 1.5 A max.
3.3 LAN	50 V DC max., 0.35 A max.
3.4 Internal power consumption	150 mA max. @ 230 V AC
3.5 Operating temperature	+0 °C - +50 °C The equipment should not be subjected to extreme temperatures and variations in temperature.
3.6 Reference temperature for specifications	+25 °C

5 Comments:

Warranty	12 months
RoHS-compliance	Yes

6 Recommended accessories:

Guiding rails for mounting
USB 3.0 gen. 1 cable type A / type A
Lighting bar
Several antennas
Measurement cable assemblies



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Technical data:

7 Possible options:

Additional or other RF connectors

VGA-interface

LAN-interface filtered by optical media converter

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

Ferrite absorber

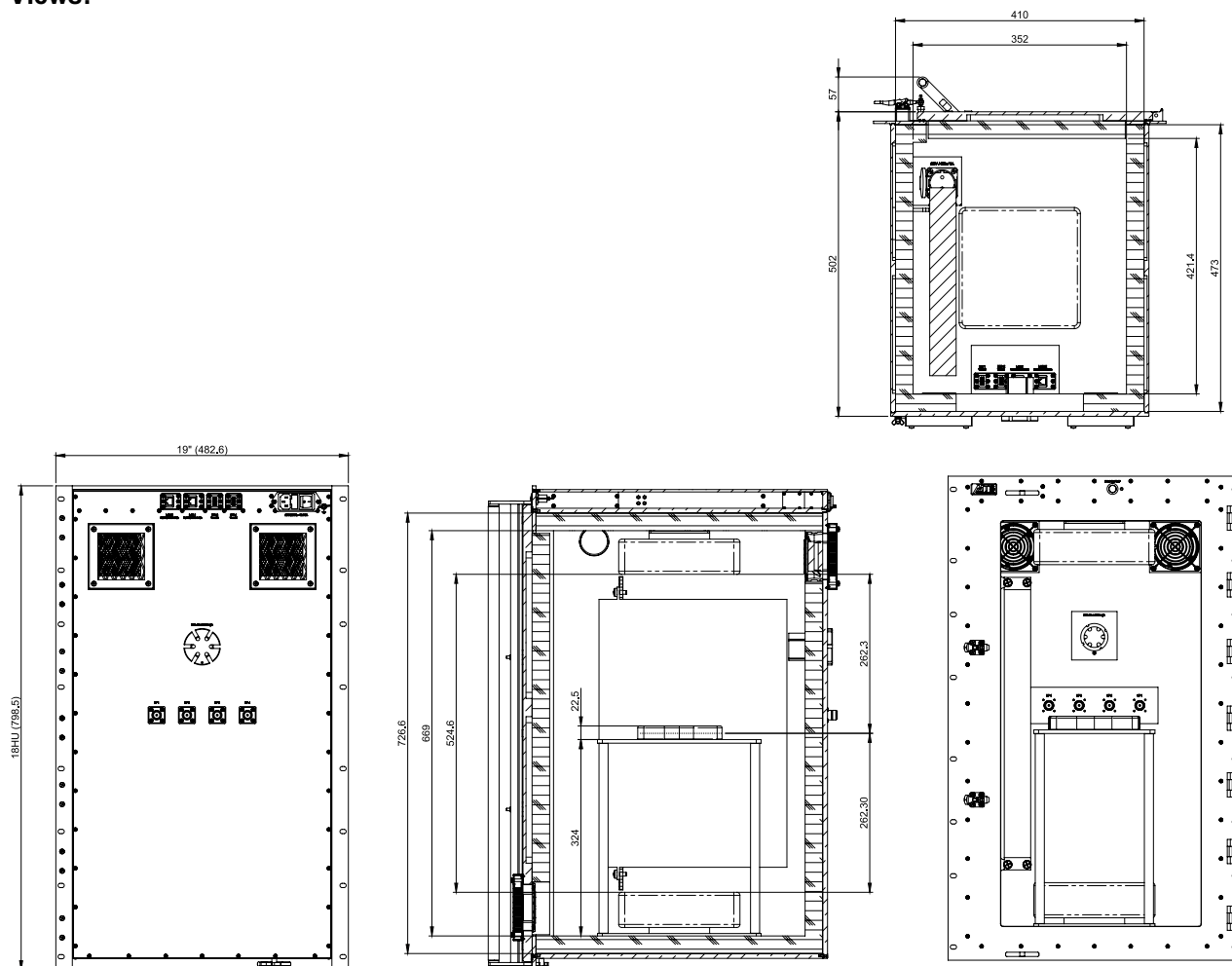
Infrared window

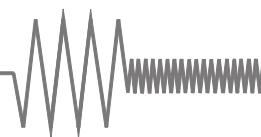
Locking (for padlock)

One or more pcs. of mobile smart phone attachment with or without Velcro® fastening

Door with built-in flexible wire mesh optional with 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 and isolated fiber-optic feedthrough (complete solid cover):

