NTD RF SHIELDED BOXES

"The optimum solution for testing small electronic devices"

- Mobile/Cellular, PCS, GSM & 3G
- Wireless Device Testing
- 802.11a/b/g/n, WLAN & WiFi
- Pages, Transmitters & Receivers
- 802.15, Bluetooth, ZigBee & Wibree
- PCMCIA
- RFID
- Notebook & Tablet Computers
- Blade Servers
- Dense Packs

NTD RF SHIELDED BOXES

Features

- Isolation -100dB @ 1GHz, -90dB @ 3GHz, -80dB @ 6GHz
- Lightweight design making it a portable solution
- Pneumatically supported opening and closing mechanism
- Low inside reflection providing precision and stable RF measurement results
- Large and easily removable penetration panel which can be populated with customers specific connectors.
- Versatile in that it can be manufactured to specific customer requirements

NTD: SSBX22

The SSBX22 is our latest high performance box which has been designed and developed using the principles which have made the NTDSSB X21 a success.

Due to some subtle design modifications and alterations. We have developed a product that is both high performing and reliable.

We believe at NTD that the SSBX22 is undoubtedly the best product on the market in its price range as it is not only cosmetically pleasing on the eye and functionally very effective but also larger than its competitors giving the customer more scope to test larger single items and where possible multiple items.

	MODEL	FEATURES	CONNECTORS	ISOLATION	DIMENSIONS
	SSBX22	• Beryllium copper fingers and knife edge seal • Pneumatically supported opening and closing • Adjustable stop/stay pneumatic lid • Ideal for testing Mobile/Cellular phones and compact devices	Custom configured	-100dB @ 1GHz -90dB @ 3GHz -80dB @ 6GHz	540mm (21¼") (L) 440mm (17¼") (W) 220mm (8½") (H)

MOBILE/CELLL PHONE TESTING

UMTS: 3G, third generation mobile telephony has arrived and CDMA is beginning to replace TDMA (time division multiple access)

UMTS base stations can operate on the same frequencies allowing larger numbers of mobile phones to be carried on the same channel.

For GSM 900 there are 174 different frequencies and over 300 for GSM 1800/1900. This makes s finding an unused channel for handset testing relatively easy. With UMTS the problem is much more acute as there are only 12 channels and finding an unused one can be very problematic.

Now day's most new mobile/cell phones no longer have an RF (radio frequency) connection. When testing is carried out on a frequency in use by local GSM or UMTS networks this can have a very detrimental effect on the measurement results.

BER (bit error rate) measurements can only be made on interference free channels. Additional signals from base stations for example can seriously distort measurement results.

TESTING SLOUTION

Large expense faraday cages can be used but these are both large and expense and, the solution for cost effect testing is the **NTD RF shielded boxes.** Our range of NTD RF shielded boxes insulate against signals of 60db and above and also reduce both signals produced by the handset and interference from base stations to one millionth of the original. This virtually eliminates disruption and helps avoid disputes between mobile/cell phone workshops and network operators allowing comprehensive testing to be carried out on all channels

NTD's range of high performance RF shielded boxes specifically enables singular and multiple testing of 3G mobile phones, WLAN equipment, data cards and any other electronic items. Due to the larger size of our RF shielded boxes compared to our competitors our customers have found larger single items and multiple testing can be carried out which makes our RFshielded boxes more versatile and cost effective than our competitors.

Where keeping RFI away is paramount the NTD range of RF shielded boxes is the ultimate solution.

CUSTOM CONFIGURATION OPTIONS

RF Feedthrough:	BNC, TNC, SMA, SMB, UHF, Type-N
RF Filtered Data:	DB9 (10pf), DB9 (100pF), DB9 (1000pF), DB15 (100pF), DB15 (1000pF), DB25 (310pF), DB25 (1000pF), DB37 (310pF), DB37 (1000pF), RJ11/DB9 Filtered, RJ45/DB9 Filtered, USB1/DB9 Filtered
Power Connections:	4-Pole filtered barrier strip feed through, 6-Pole filtered barrier strip feed through, internal surge protected power strips (110VAC, 220VAC International)

Prices, availability, and specifications are subject to change.

CUSTOMER CONFIGURATION SHEET

1. Determine what RF Feedthrough Connectors are required and quantity desired:

- ☐ BNC female
- ☐ TNC female
- ☐ SMA female
- ☐ SMB female
- ☐ UHF female
- ☐ Type-N female
- ☐ Fiber Optic feedthrough, ST
- ☐ Fiber Optic feedthrough, FC

2. Determine what RF filtered data connections are desired:

- ☐ DB9 (10pf)
- ☐ DB9 (100pf)
- ☐ DB9 (1000pf)
- ☐ DB15 (100pf)
- ☐ DB15 (1000pf)
- ☐ DB25 (310pf)
- ☐ DB25 (1000pf)
- ☐ DB37 (310pf)
- ☐ DB37 (1000pf)
- ☐ RJ11/DB9 adapter kit
- ☐ RJ45/DB9 adapter kit
- ☐ USB1.0 & USB1.1/DB9 adapter kit

3. Determine what bulkhead terminal connections are desired:

- ☐ 4-Pole filtered barrier strip, 100VDC/20A
- ☐ 4-Pole filtered barrier strip, 250VAC/20A
- ☐ 6-pole filtered barrier strip, 100VDC/20A
- ☐ 6-pole filtered barrier strip, 250VAC/20A
- ☐ Inside surge protected 110VAC outlet strip