dbSAFEx

QUICKSHIP

Ready. Set. Test.

The dbSAFEx Series advanced RF test enclosures are versatile for any wireless testing. Designed to operate between 300 MHz to 13 GHz, testing of wireless devices has never been more reliable and affordable.

Each and every dbSAFEx test enclosure provides greater than 90 dB isolation* through the use of high quality durable broadband RF absorbers. In addition, the standard double layer sealed door cover ensures maximum performance and durability. For your convenience, the I/O panels can be easily interchanged in the field as your testing needs evolve. Factory-level alignment and adjustments are made possible by the DoorCal™ feature.
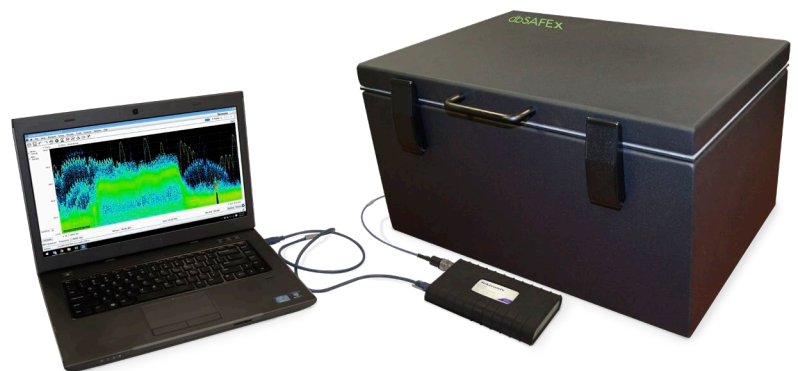
* Isolation measurements are taken adjacent to each seam.
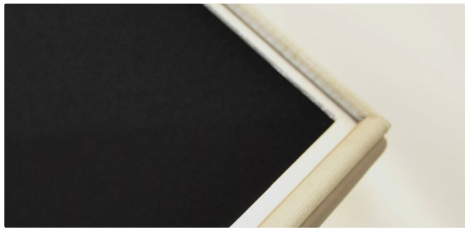
Broadband Absorber

- Broadband Lossy Foam Absorber fabricated from lightweight conductive carbon loaded sheet stock provides broadband absorption at microwave frequencies.
- Absorbers are designed with a constant coating to exhibit high reflection loss and are applied to all exposed metal surfaces inside the dbSAFEx.

Reliability

- The DoorCal™ feature allows the user to perform factory level door alignment and adjustments maximizing isolation performance.
- Dual layer reinforced door cover and durable hinges prevent bending and warping of the top side geometry – the most susceptible area of an RF test enclosure.
- All metal surfaces are chemically conversion coated to minimize oxidation and maintain electrical conductivity on all exposed non-painted areas.
- Gaskets resist compression set and are rated for 50,000 cycles.
- High quality nickel fabric over urethane foam core dual gasket door seal.

Choice of Preconfigured I/O Panels

- Select from our preconfigured I/O panels.
- All I/O panels are user interchangeable in the field via an optional torque screwdriver.
- Available data interface modules include USB 2.0 / 3.0 / 3.1, Ethernet 1 Gbps. All interfaces are filtered to maintain signal integrity and minimize interference from entering and exiting the test enclosure.
- Variety of power options include AC/DC inlet modules and connectors up to 20 A.

Specifications for dbSAFEx

Isolation

Shielding Effectiveness (dB)	300 MHz - 2 GHz ≥ 90 dB
(Isolation measurements taken adjacent to each seam)	2 GHz - 3 GHz ≥ 90 dB
	3 GHz - 4.5 GHz ≥ 80 dB
	4.5 GHz - 6 GHz ≥ 80 dB
	6 GHz - 13 GHz ≥ 70 dB

Construction

Wall Type	Single Wall Welded Aluminum Structure
Door Style	Front Opening
	Dual Paddle Latch
RF Gasket	Dual Braid Over Foam
Absorber	Broadband Lossy Foam Absorber

Accessories

OTA Performance Verification	Noise Source and Power Sensor
Test Probe Antenna	dbDIRECT Cross Polarized Vivaldi
Calibration Antenna	dbDIRECT Series Standard Gain Horn
Other	PN: 09925X-OPTION 909 Torque Screwdriver

All Dimensions WxDxH Inch (mm)

dbSAFEx	Int. 18" (457) x 12" (305) x 8" (203)
	Ext. 18.75" (476) x 12.75" (324) x 10.09" (256)
dbSAFEx+	Int. 22.75" (578) x 16.75" (425) x 11" (279)
	Ext. 24" (610) x 18" (457) x 13.5" (343)

I/O Panel Options

Standard I/O Panels	**PN: 09925XP-1**
	2 x SMA, 1 x DB9
	PN: 09925XP-2
	2 x SMA, 1 x USB 2.0, 1 x DB9
	PN: 09925XP-3
	2 x SMA, 1 x Ethernet, 1 x DB9
	PN: 09925XP-4
	4 x SMA, 1 x USB 2.0, 1 x Ethernet, 1 x DC
	PN: 09925XP-5
	2 x SMA, 1 x USB 3.0, 1 x Ethernet, 1 x DC
RF Connectors	SMA, BNC, TNC
I/O Connectors and Data Modules	USB 2.0 / 3.0 / 3.1, Ethernet 1 Gbps with POE
	Audio 3.5 mm (2, 4 or 20 position)
	D-Sub:
	DB-9, DB-15, DB-25, DB-37
	(50 position and HD D-subs available on request)
	50V/5A Per Pin
AC Power	120/250 V - 15 A, 50/60 Hz AC Module
DC Power	0-100 VDC - 20 A, Two Position DC Module

Ordering Information

Models	099250 dbSAFEx
	099260 dbSAFEx+
Warranty	2 Years, Parts and Labor (with product registration)

Please contact factory for custom sizing, additional options, and unique design application ideas.

dbSAFEx

L 12.75" (324)
H 10.09" (256)
W 18.75" (476)
20lbs (9 kg)

dbSAFEx+

L 18" (457)
H 13.5" (343)
W 24" (610)
30lbs (13.6 kg)

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