DVTEST

dbSAFE mm

ARE YOU READY?

5G technology will soon be in the early stages of commercial reality. A recent survey conducted by the Telecommunications Industry Association (TIA) identified “trials, testing and deployment” and “spectrum issues” as being the top 5G concerns of network operators. Initially 5G radio deployments will be within evolved 4G networks – utilizing spectrum below 6GHz, but quickly moving in the 25-50GHz range, and eventually beyond. With no unified standards on how 5G testing should be performed, there is uncertainty in the industry on how to proceed. At the moment, most 5G development is being tested either within large chambers or in small enclosures that were initially designed for 4G (or even 3G!) Testing. These enclosures are unable to provide the performance required in order to do anything other than perfunctory testing.

Surpassing todays test limitations…

Millimeter wave testing requires enclosures designed for millimeter wave testing. When device speed and sensitivity increases, challenges in making small, noise free RF test environments increases as well.

Bringing power and data into and out of small RF enclosures becomes impossible using methods used for sub-X band applications and high numbers of inefficient RF ports compromise the isolation and the measurement.

The dbSAFE mm is the first RF test enclosure that addresses these millimeter wave requirements with:

- Enhanced shielding
- Interference and noise filtering designed for high frequency
- A ventilation mechanism for mmWave frequencies
- True optical isolation at mmWave frequencies
- Signal integrity management for high channel MIMO applications
- A design capable of accommodating “at temperature” testing

dbSAFE mm Features

WAVEGUIDE VENTS

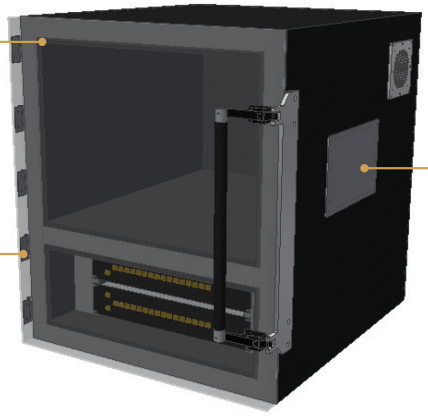
Waveguide air vents maintain isolation better than honeycomb or EMI screens.

METAL WORK

High quality aluminum construction. All surfaces chemically conversion coated to maintain conductivity.

ROBUST LATCHING

Ensures that good gasket compression is achieved with every closure while maintaining ergonomics.



ABSORBER

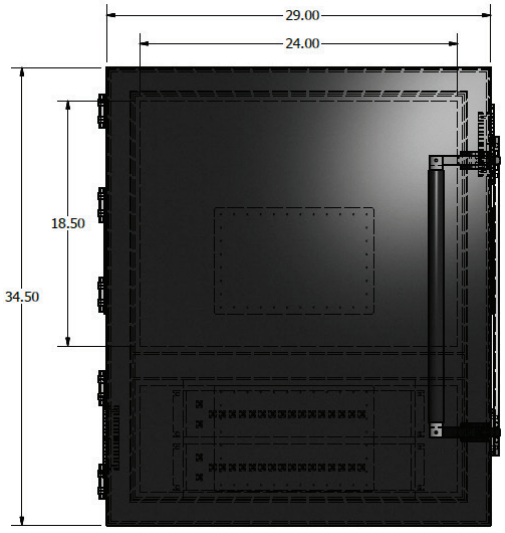
0.5 inch broadband absorber reduces reflections and increases isolation.

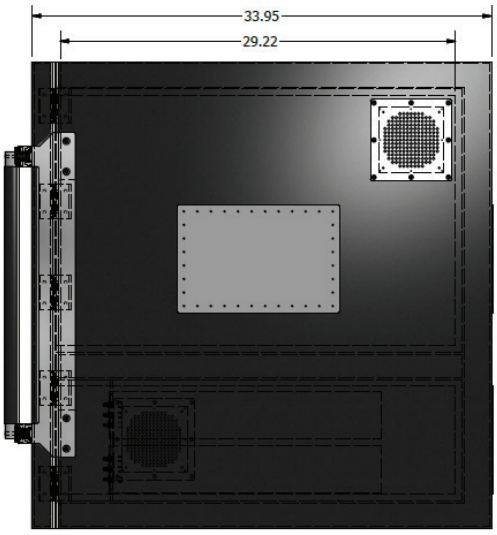
IO PANELS

IO panels can be customized as required.

HINGES

High quality hinges with no metal to metal contact points carry the load of the door, preventing deflection and improper sealing.





Shielding Effectiveness	120db @ 13GHz 110db @ 13GHz – 20GHz 100db @ 20GHZ – 40GHZ
Door Opening	Front side, dual point latch
RF Gasket	Dual braid over foam
Warranty	2 years parts and labor 3 years parts and labor with regiatration

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