dbSAFE Classic

A Modern Take on the Original DVTEST RF Enclosure

The dbSAFE CLASSIC is designed to be a utility enclosure for a broad range of RF applications. Offering a wide operable frequency range between 300 MHz and 18 GHz with greater than 90 dB isolation.

The dbSAFE Classic is an excellent choice for testing NB-IoT, WiFi, Bluetooth, GPS and Cellular technologies. All enclosures feature the same durable aircraft grade aluminum construction and precision machined I/O panel of the original dbSAFE. All surfaces are treated by DVTEST's proprietary **Tri-Shield**© passivation process to eliminate oxidation; ensuring no degradation in isolation performance over the life of the enclosure. The dbSAFE CLASSIC incorporates modern gasketing, absorber, and interchangeable I/O panels.

DVETST's offers the widest selection of I/O connectors and interface modules in the industry so that you may adapt the enclosure to your test requirements. Flexible connectorization options allow for exterior connectors to be chosen for your test equipment while interior connectors may be customized for the DUT.

It is offered in 3 standard top load sizes, sizes range from 13 x 9.25 and x 7 up to 20 x 18 x 9. In addition to having three standard sizes, the dbSAFE Classic can be manufactured to any size.

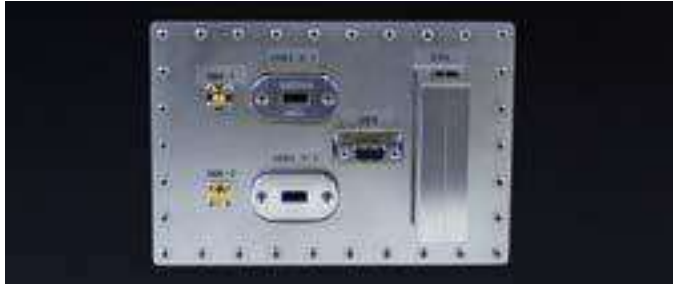The dbSAFE CLASSIC will not disappoint. It truly is an instant classic!

Broadbad Absorber

Broadband Lossy Foam Absorber fabricated from light weight 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 dbSAFE CLASSIC.

I/O Panel

All I/O panels are interchangeable in the field via an optional torque screwdriver. All interfaces are filtered to maintain the highest signal integrity. Multiple power input options including 20A DC and a variety of AC configurations. Select from standard configurations or custom design your own I/O panel.

Specifications for the dbSAFE Classic

Isolation		
Shielding Effectiveness* (dB)	300 MHz - 3 GHz	≥ 90 dB
	3 GHz - 4.5 GHz	≥ 85 dB
	4.5 GHz - 6 GHz	≥ 80 dB

Isolation measurements taken adjacent to each seam.

Construction	
Chassis Type	Welded Aluminum Structure
Surface Treatment	Tri-Shield coated to MIL-DTL-5541F
Door Style	Top Load
RF Gasket	Braid Over Foam
Absorber	Broadband Lossy Foam Absorber

Accessories	
Test Probe Antenna	dbDIRECT Cross Polarized Vivaldi
Calibration Antenna	dbDIRECT Series Standard Gain Horn
Antenna Couplers	dbCoupler Series (Standard, Mini)
I/O Panel Exchange Tool	PN: 09925X-OPTION 909 Torque Screwdriver

I/O Panel Options	
RF Connectors	SMA, N Type, BNC, TNC
I/O Data Modules	USB 2.0/3.0/3.1*, 1 & 10 GigE+PoE, HDMI 1.4/2.0, Audio 3.5 mm *USB single, dual, quad and high density port versions available
I/O Connectors	DB-9, DB-15, DB-25, DB-37 50V/5A Per Pin
AC Power	TYPE A - 120V AC Module (IEC-320 to NEMA 5R) TYPE F - 250V AC Module (IEC-320 to Schuko) TYPE G - 230V AC Module (IEC-320 to BS 1363)
DC Power	DC - 100V/20A Module (+.- terminals)

Ordering Information - Dimensions W x D x H inches (mm)	
dbSAFE Classic I Internal: 8.25" (209.55) x 12" (304.8) x 6" (152.4)	
dbSAFE Classic II Internal: 17" (431.8) x 11.25" (285.75) x 8" (203.2)	
dbSAFE Classic III Internal: 17" (431.8) x 19" (482.6) x 8" (203.2)	
Warranty	1 Year, parts and labor

Specifications are subject to change without notice.
Please contact factory for additional options, and unique design application ideas.