

# dbSAFE CLASSIC



A work of art  
of recognized &  
established value



The dbSAFE CLASSIC is 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. A wide operable frequency range between 300 MHz and 18 GHz with greater than 90 dB of isolation makes it an excellent choice for NB-IoT, WiFi, Bluetooth, GPS and Cellular technologies. Featuring the same durable aircraft grade aluminum construction and precision machined I/O panel of the original dbSAFE, the dbSAFE CLASSIC incorporates modern gasketing, absorber, and interchangeable I/O panels. Added to that is the widest selection of I/O connectors and interface modules in the industry. The dbSAFE CLASSIC will NOT disappoint.

It truly is an instant classic!





## Broadband 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.



## Reliability

- Aircraft grade aluminum resists bending and warping.
- 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.
- High quality nickel fabric over urethane foam gaskets with mitered edge installation, resist compression set and are rated for a minimum 50,000 cycles.



## I/O Panel

- All I/O panels are interchangeable in the field via an optional torque screwdriver.
- Data interface modules include USB 2.0/3.0/3.1, 1 & 10GigE+PoE, HDMI 1.4.
- 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 dbSAFE CLASSIC

### Isolation

|  |                 |         |
|--|-----------------|---------|
| Shielding Effectiveness (dB)                         | 300 MHz - 3 GHz | ≥ 90 dB |
| (Isolation measurements taken adjacent to each seam) | 3 GHz - 4.5 GHz | ≥ 85 dB |
|  | 4.5 GHz - 6 GHz | ≥ 80 dB |
|  | 6 GHz - 18 GHz  | ≥ 70 dB |

### Construction

|                   |                                    |
|-------------------|------------------------------------|
| Chassis Type      | Welded Aluminium Structure         |
| Surface Treatment | Tri-Shield coated to MIL-DTL-5541F |
| Door Style        | Top Load Dual Paddle Latch         |
| RF Gasket         | 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       |
| 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, Audio 3.5 mm<br>*USB single, dual, quad and high density port versions available               |
| I/O Connectors   | D-Sub DB-9, DB-15, DB-25, DB-37<br>50V/5A Per Pin   |
| AC Power         | TYPE A - 120V AC Module (IEC-320 to NEMA 5R)<br>TYPE F - 250V AC Module (IEC-320 to Schuko)<br>TYPE G - 230V AC Module (IEC-320 to BS 1363) |
| DC Power         | DC - 100V/15A Module (+/- terminals)  |

### Ordering Information

|                                |  |
|--------------------------------|--|
| Dimensions W x D x H Inch (mm) | <b>PN: 099007 CLASSIC I</b><br>12" (304.8) x 8.25" (209.55) x 6" (152.4)   |
| (All dimensions are internal)  | <b>PN: 099008 CLASSIC II</b><br>17" (431.8) x 11.25" (285.75) x 8" (203.2) |
|                                | <b>PN: 099009 CLASSIC III</b><br>19" (482.6) x 17" (431.8) x 8" (203.2)    |
| Warranty                       | 1 Year, Parts and Labor  |

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



CLASSIC I



CLASSIC II



CLASSIC III

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