Data Sheet

Compact Fully Anechoic Chamber CAC-S™ (26 MHz - 18 GHz)

The TDK fully anechoic chamber CAC-S™, with a size of 7.5 m long, 4.0 m wide and 3.0 m high (24'-7" x 13'-1" x 9'-10"), is the most compact anechoic test facility to perform radiated EMC measurements between 26 MHz and 18 GHz. A major advantage of this chamber is that it can be constructed within most industrial buildings and office areas.

The space saving characteristics are obtained by the use of a particular absorber installation technique which was invented and patented by TDK - the double layer technique. TDK ferrite tiles X-131 are mounted onto dielectric panels to cover the complete frequency range from 26 MHz to 1,000 MHz.

By installing TDK IP-045C wedge-shaped, resistive absorbers in selected areas of ceiling and walls, the frequency range can be extended up to 18 GHz. White end caps complete the absorbers and greatly improve the illumination levels inside the chamber.

CAC-S enables the user to carry out radiated immunity measurements in full compliance with IEC 1000-4-3 standard over the frequency range from 26 MHz to 18 GHz. 3-meter radiated emissions measurements can be performed at a fixed receive antenna height in the 30 MHz to 18 GHz frequency range. This makes the CAC-S an ideal facility to test small apparatus.

- Radiated emissions: Pre compliance with EN 50147-2, ANSI C63.4, CISPR 22
- Radiated immunity: Full compliance with IEC 1000-4-3
- Fully lined double layer ferrite tile and partially lined IP-045C absorber (TDK hybrid technology)
- Space saving: 7.5 m long, 4.0 m wide and 3.0 m high (24'-7" L x 13'-1" W x 9'-10" H)
- Frequency range: 26 MHz - 18 GHz
- Turnkey solution

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