10m Fully Compliant Anechoic Chamber

Product Overview

The TDK 10 meter test range semianechoic chamber is designed to perform radiated emissions measurements at 10 meter distance in full compliance with ANSI C63.4, EN 501472, and CISPR 22 standards.

TDK hybrid technology absorber lining achieves exceptional electrical performance with dimensions of only 18.0 m long x 12.0 m wide x 8.4 m high (59’ x 39’4” x 27’6”).

The chamber is lined with ferrite tiles and IPO90 series hollowtaper, wedgeshaped, fully-matched absorbers to cover the frequency range from 30 MHz to 40 GHz. White end caps complete the absorbers and greatly improve the illumination levels inside the chamber.

NSA deviation is guaranteed to be within ±3.5 dB for a test volume of 3 m Ø, 2.5 m high.

By positioning TDK ferrite tile floor panels and IPO45C absorbers between the transmit antenna and EUT (Equipment Under Test), the semianechoic chamber can be used to perform radiated immunity measurements in full compliance with IEC 10004-3 standard in the frequency range from 26 MHz to 18 GHz. The field uniformity is guaranteed over 75% of the surface (12 of the 16 points) of a vertical plane of 1.5 m x 1.5 m high, 0.8 m from the ground.

Features

- Radiated emissions: Full compliance with ANSI C63.4, EN 501472, CISPR 22
- Radiated immunity: Full compliance with IEC 10004-3
- Fully lined ferrite tile and IPO90 series absorber (TDK hybrid technology)
- Dimensions: 18.0 m long x 12.0 m wide x 8.4 m high (59’ L x 39’4” W x 27’6” H)
- Turnkey solution

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Example of actual NSA results in a TDK 10 meter test range semi-anechoic chamber [measured by ARC Seibersdorf].

Chamber Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>18.0 m long x 12.0 m wide x 8.4 m high (59' L x 39'4&quot; W x 27'-6&quot; H)</td>
</tr>
<tr>
<td>Absorbers</td>
<td>Fully lined ferrite tile</td>
</tr>
<tr>
<td></td>
<td>Fully lined IPO90 series absorber</td>
</tr>
<tr>
<td>NSA test volume ±3.5 dB (@3 m)</td>
<td>3.0 m Ø, 2.5 m high</td>
</tr>
<tr>
<td>Field uniformity area [0, +6dB]</td>
<td>1.5 x 1.5 m, 0.8 m from floor</td>
</tr>
<tr>
<td>Radiated emissions</td>
<td>Compliance with ANSI C63.4, EN 50147-2, CISPR 22</td>
</tr>
<tr>
<td>Radiated immunity</td>
<td>Compliance with IEC 1000-4-3</td>
</tr>
<tr>
<td>EMI frequency range</td>
<td>30 MHz - 40 GHz</td>
</tr>
<tr>
<td>EMS frequency range</td>
<td>26 MHz - 19 GHz</td>
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</tbody>
</table>

To place an order or to learn more about the TDK products that best meet your needs, contact your TDK sales representative:

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