CN 200N1
AUDIO TRANSFORMER ASSEMBLY FOR LF CONDUCTED IMMUNITY TESTING

The CN 200N1 is a standalone coupling network unifying two audio transformers being individually configurable for various test requirements (e.g. Ford EMC-CS-2009.1, German Lloyd GL VI-7-2 and SAE J1113-2). The CN 200N1 is used to apply the test signals to the lines under test via an audio transformer to perform ripple voltage tests and continuous or transient conducted immunity tests.

HIGHLIGHTS

- One-box transformer and 0.5ohm load assembly
- Frequency response 10Hz to 250kHz
- Secondary saturation 50A per transformer
- Audio power 2 x 200W
- Freely configurable on primary/secondary; serial, parallel, single
- Turns ratio 2:1 step down
- Built-in non-inductive load resistor 0.5ohm, 250W

APPLICATION AREAS

- AUTOMOTIVE
- MILITARY
- AVIONICS

FOR TESTS ACCORDING TO ...

- AIRBUS
- Chrysler CS-11809 (2009)
- DaimlerChrysler DC-10615
- DO 160 Section 16
- DO 160 Section 18
- Ford EMC-CS-2009.1
- GLloyd VI-7-2
- ISO 11452-10
- EMC-CS-2010LJR V1.1 (2011-01)
- MIL STD 461 D CS 101
- MIL STD 461 D CS 109
- MIL STD 461 E CS 101
- MIL STD 461 E CS 109
- MIL STD 461 F CS 101
- MIL STD 461 F CS 109
- MIL-STD-704
- Mitsubishi ES-X82115
- SAE J1113-2
- Tata TST/TS/WI/257
# TECHNICAL DETAILS

## CHARACTERISTICS AUDIO ISOLATION TRANSFORMERS

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency response</td>
<td>10Hz - 250kHz</td>
</tr>
<tr>
<td>Audio power</td>
<td>200W</td>
</tr>
<tr>
<td>Secondary saturation</td>
<td>Max. 50A AC or DC</td>
</tr>
<tr>
<td>Turns ratio</td>
<td>2:1 step down</td>
</tr>
</tbody>
</table>

## TRANSFORMER CONFIGURATION

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary configuration</td>
<td>Single, series or parallel connection</td>
</tr>
<tr>
<td>Secondary configuration</td>
<td>Single or parallel (with 0.5ohm, 250W load)</td>
</tr>
</tbody>
</table>

## CONNECTORS

<table>
<thead>
<tr>
<th>Connectors</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary connectors</td>
<td>4mm safety lab connectors</td>
</tr>
<tr>
<td>Secondary connectors</td>
<td>High current safety connectors</td>
</tr>
</tbody>
</table>

## GENERAL DATA

<table>
<thead>
<tr>
<th>Data</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>19&quot;, 3HU (395mm x 449mm x 133mm)</td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 20kg</td>
</tr>
<tr>
<td>Cooling</td>
<td>passive cooling</td>
</tr>
<tr>
<td>Temperature</td>
<td>10°C - 40°C</td>
</tr>
<tr>
<td>Rel. humidity</td>
<td>Max. 85%, non-condensing</td>
</tr>
</tbody>
</table>
COMPETENCE WHEREVER YOU ARE

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Information about scope of delivery, visual design and technical data correspond with the state of development at time of release. Technical data subject to change without further notice.