AN 2050N SERIES
SINGLE-LINE ARTIFICIAL NETWORKS (AN) FOR EMISSION MEASUREMENTS IN BATTERY SUPPLY SYSTEMS

The EM TEST single-line Artificial Networks, type AN 2050N series, are used for the simulation of the impedance of the wiring harness particularly for testing the interference voltage in HF-VHF-area in the battery supply system (e.g. in the automotive, aerospace and military area).

They are designed to meet the specifications as per CISPR 25/ISO 11452-4 or ISO 7637.

HIGHLIGHTS
- Artificial Network as per ISO 7637 or CISPR 25/ISO 11452-4
- Frequency range: 100kHz - 108MHz
- DC voltage max. 400V
- AC voltage max. 250V (up to 1kHz)
- Current max. 50A AC/DC cont.
- Insertion loss < 3dB
- Compact design

APPLICATION AREAS
- AUTOMOTIVE
- AVIONICS
- MILITARY

FOR TESTS ACCORDING TO ...
- CISPR 25
- ISO 11452-4
- ISO 7637-1:1990
- ISO 7637-2:2004
- ISO 7637-2:2011
## TECHNICAL DETAILS

### AN 2050N SERIES

#### MODEL OVERVIEW

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AN 2050N1</td>
<td>Artificial Network as per CISPR 25 (with 1uF) and ISO 11452-4</td>
</tr>
</tbody>
</table>

#### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency range</td>
<td>0.1 to 108MHz</td>
</tr>
<tr>
<td>Operation voltage</td>
<td>400V DC / 250V AC (up to 1kHz)</td>
</tr>
<tr>
<td>Operation current</td>
<td>50A continuous</td>
</tr>
<tr>
<td>Impedance</td>
<td>50ohm // 5uH +/-10% (AN 2050N)</td>
</tr>
<tr>
<td></td>
<td>50ohm // 5uH + 1uF (AN 2050N1)</td>
</tr>
<tr>
<td>Insertion loss</td>
<td>&lt; 3dB DUT to receiver output</td>
</tr>
<tr>
<td>Inductance</td>
<td>5uH +/-10% (air-core coil)</td>
</tr>
<tr>
<td>Coupling capacitor</td>
<td>0.1uF</td>
</tr>
</tbody>
</table>

#### MEASUREMENT

| Power supply/DUT connection | High-current connector up to 100A 4mm safety lab connector up to 32A |
| Test output                | BNC-connections                                                     |

#### GENERAL DATA

<table>
<thead>
<tr>
<th>Dimension</th>
<th>180 x 105 x 104mm (L x W x H) (without connecting socket)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>approx. 1kg</td>
</tr>
</tbody>
</table>

#### OPTIONS

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BS 200N80</td>
<td>Electronic switch, 60V/80A, for the measurement of transient pulse emission as per ISO 7637</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.