Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity $C_{\text{max}}$ (nominal)</td>
<td>1300 pF</td>
</tr>
<tr>
<td>Capacity $C_{\text{min}}$ (nominal)</td>
<td>40 pF</td>
</tr>
<tr>
<td>Voltage (Peak Test $U_{\text{pt}}$ / Peak Working $U_{\text{pw}}$)</td>
<td>50 kV / 30 kV</td>
</tr>
<tr>
<td>Capacitance per turn</td>
<td>35.8 pF/turn</td>
</tr>
<tr>
<td>Net Weight</td>
<td>19 kg</td>
</tr>
</tbody>
</table>

Max. Current $I_{\text{max}}$ at 13.56 MHz with Water Cooling: 797 Arms

Self Inductance: $\leq 34$ nH

Torque: $\leq 1.5$ Nm

Reference point: 100 pF

Imax for 25 l/min water cooling; max. water temp. at inlet: 70°C; fixed end has to be cooled with min. 50 W

Data-Sheet - Variable Vacuum Capacitor - LAMi-Con Series

CVLA-1300AW/50-ABE-HN

Old Type Designation: CV3W-1300FB

Note: Technical information in Service Bulletin SB-52 must be considered

Technical information in Service Bulletin SB-52 must be considered

Issue: 09-Jan-2007

Replaces: 08-Apr-2004
### Data-Sheet - Variable Vacuum Capacitor - LAMi-Con Series

**CVLA-1300AW/50-ABE-HN**

**Old Type Designation:** CV3W-1300FB

**Technical Information in Service Bulletin SB-52 must be considered**

### Capacitance [pF]

<table>
<thead>
<tr>
<th>Turns</th>
<th>Nominal Capacitance [pF]</th>
<th>Tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td>-3.0</td>
<td>40.0</td>
<td>2pF</td>
</tr>
<tr>
<td>-2.0</td>
<td>50.8</td>
<td>2pF</td>
</tr>
<tr>
<td>0.0</td>
<td>100.0</td>
<td>0%</td>
</tr>
<tr>
<td>5.0</td>
<td>277.6</td>
<td>2%</td>
</tr>
<tr>
<td>10.0</td>
<td>457.2</td>
<td>2%</td>
</tr>
<tr>
<td>15.0</td>
<td>636.7</td>
<td>2%</td>
</tr>
<tr>
<td>20.0</td>
<td>816.2</td>
<td>2%</td>
</tr>
<tr>
<td>25.0</td>
<td>995.8</td>
<td>2%</td>
</tr>
<tr>
<td>30.0</td>
<td>1175.3</td>
<td>2%</td>
</tr>
<tr>
<td>33.5</td>
<td>1300.0</td>
<td>2%</td>
</tr>
</tbody>
</table>

- Mechanical stop at < 40 pF at ~ -4.1 turns
- Mechanical stop at > 1300 pF at ~ 33.8 turns

### Self Inductance and Resonance Frequency

- **L [mH]**
- **f [MHz]**

### ESR [mΩ]

- **Frequency [MHz]**

### EPR [mΩ]

- **Frequency [MHz]**

### tan δ

- **Frequency [MHz]**

**Special Features:**

- Special C-Curve / Special Capacity Tolerance,
- Turbulence Cooling

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**Note:**

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