# Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity $C_{\text{max}}$ (nominal)</td>
<td>1600 pF</td>
</tr>
<tr>
<td>Capacity $C_{\text{min}}$ (nominal)</td>
<td>100 pF</td>
</tr>
<tr>
<td>Voltage (Peak Test $U_{\text{pt}}$ / Peak Working $U_{\text{pw}}$)</td>
<td>40 kV / 24 kV</td>
</tr>
<tr>
<td>Capacity Tolerance (linear Range)</td>
<td>2%</td>
</tr>
<tr>
<td>Max. Current $I_{\text{max}}$ at 13.56 MHz with water cooling</td>
<td>633 Arms</td>
</tr>
<tr>
<td>Water Cooling</td>
<td>25 l/min</td>
</tr>
<tr>
<td>Self Inductance</td>
<td>$\leq$ 36 nH</td>
</tr>
<tr>
<td>Capacitance per turn</td>
<td>35.8 pF/turn</td>
</tr>
<tr>
<td>Torque</td>
<td>$\leq$ 1.5 Nm</td>
</tr>
<tr>
<td>Net Weight</td>
<td>22 kg</td>
</tr>
</tbody>
</table>

![Graph showing Capacitance [pF] vs. Turns](image1)

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

![Graph showing Frequency [MHz], $U_{\text{pw}} = 24$ kV](image2)

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

Issue: 20-Feb-2008

Replaces: 08-Apr-2004
### CVLA-1600BW/40-AAE-HN

**Old Type Designation:** CV3W-1600E

**Technical Information:**

- **Nominal Capacitance [pF]**
  - 0.0: 100.0 [0%]
  - 5.0: 276.1 [2%]
  - 10.0: 455.4 [2%]
  - 15.0: 634.8 [2%]
  - 20.0: 814.3 [2%]
  - 25.0: 993.8 [2%]
  - 30.0: 1173.3 [2%]
  - 35.0: 1352.7 [2%]
  - 40.0: 1532.2 [2%]
  - 41.9: 1600.0 [2%]

Mechanical stop at < 100 pF at ~ 1.5 turns
Mechanical stop at > 1600 pF at ~ 42.2 turns

**Self Inductance and Resonance Frequency**

- Resonance frequency
- Self Inductance

**Special Features:**
- Special C-Curve / Special Capacity Tolerance,
  - Turbulence Cooling

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

**Issue:** 20-Feb-2008

**Replaces:** 08-Apr-2004