### Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity $C_{\text{max}}$ (nominal)</td>
<td>500 pF</td>
</tr>
<tr>
<td>Capacity $C_{\text{min}}$ (nominal)</td>
<td>5.6 pF</td>
</tr>
<tr>
<td>Voltage (Peak Test $U_{\text{pt}}$ / Peak Working $U_{\text{pw}}$)</td>
<td>5 kV / 3 kV</td>
</tr>
<tr>
<td>Capacity Tolerance (linear Range)</td>
<td>10%</td>
</tr>
<tr>
<td>Max. Current $I_{\text{max}}$ at 13.56 MHz with Conduction Cooling</td>
<td>63 Arms</td>
</tr>
<tr>
<td>Conduction Cooling</td>
<td>15 W</td>
</tr>
<tr>
<td>Self Inductance</td>
<td>$\leq$ 7 nH</td>
</tr>
<tr>
<td>Capacitance per turn</td>
<td>74.4 pF/turn</td>
</tr>
<tr>
<td>Torque</td>
<td>$\leq$ 0.15 Nm</td>
</tr>
<tr>
<td>Net Weight</td>
<td>0.4 kg</td>
</tr>
</tbody>
</table>

### Data-Sheet - Variable Vacuum Capacitor - Dual-Con Series

**CVDU-500AC/5-FRF-U**

Old Type Designation: CV05C-500H

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**Subject to change without prior notice**

**Note:** Technical information in Service Bulletin

**SB-52 must be considered**

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**Note:** Technical information in Service Bulletin

**SB-52 must be considered**
**Turns** | **Nominal Capacitance [pF]** | **Tolerance**
--- | --- | ---
-1.6 | 5.6 | 10%
-1.0 | 6.9 | 10%
-0.5 | 9.3 | 10%
0.0 | 24.0 | 0%
2.0 | 169.3 | 10%
4.0 | 320.3 | 10%
6.0 | 471.3 | 10%
6.4 | 500.0 | 10%

- Mechanical stop at < 5.6 pF at ~3.4 turns
- Mechanical stop and short circuit at > 500 pF

**Special Features:**
Short-Circuit-Feature

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