Specifications

- Capacity $C_{\text{max}}$ (nominal) - 650 pF
- Capacity $C_{\text{min}}$ (nominal) - 30 pF
- Voltage (Peak Test $U_{\text{pt}}$ / Peak Working $U_{\text{pw}}$) - 55 kV / 33 kV
- Capacity Tolerance (linear Range) - 3%
- Max. Current $I_{\text{max}}$ at 13.56 MHz - 137 Arms
- Self Inductance - ≤ 24 nH
- Capacitance per turn - 11.1 pF/turn
- Torque - ≤ 1.5 Nm
- Net Weight - 8.6 kg

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

Spec Sheet: CVMA-650AC/55-ABB-F

Old Type Designation: CV3C-650EB

Frequency [MHz], $U_{\text{pw}} = 33$ kV

$I_{\text{max}}$ at 25°C ambient and 125°C surface temp. for convection cooling

Reference point: 50 pF

Capacitance per turn graph

Net Weight: 8.6 kg
### Special Features:

- Capacity Tolerance 3%

#### Technical Information:

**Nominal Capacitance [pF]**

<table>
<thead>
<tr>
<th>Turns</th>
<th>Nominal Capacitance [pF]</th>
<th>Tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td>-4.2</td>
<td>30.0</td>
<td>3%</td>
</tr>
<tr>
<td>-4.0</td>
<td>30.4</td>
<td>3%</td>
</tr>
<tr>
<td>-3.0</td>
<td>33.7</td>
<td>3%</td>
</tr>
<tr>
<td>-2.0</td>
<td>37.9</td>
<td>3%</td>
</tr>
<tr>
<td>-1.0</td>
<td>43.2</td>
<td>3%</td>
</tr>
<tr>
<td>0.0</td>
<td>50.0</td>
<td>0%</td>
</tr>
<tr>
<td>10.0</td>
<td>157.9</td>
<td>3%</td>
</tr>
<tr>
<td>20.0</td>
<td>269.3</td>
<td>3%</td>
</tr>
<tr>
<td>30.0</td>
<td>380.6</td>
<td>3%</td>
</tr>
<tr>
<td>40.0</td>
<td>492.0</td>
<td>3%</td>
</tr>
<tr>
<td>50.0</td>
<td>603.3</td>
<td>3%</td>
</tr>
<tr>
<td>54.0</td>
<td>650.0</td>
<td>3%</td>
</tr>
</tbody>
</table>

Mechanical stop at < 30 pF at ~ -5.7 turns
Mechanical stop at > 650 pF at ~ 54.5 turns

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**Capacity Tolerance**

- 3%

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**Self Inductance and Resonance Frequency**

- L [mH]
- f [MHz]
- Tolerance 3%

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**ESR and EPR**

- ESR [mΩ]
- EPR [Ω]
- Tolerance 3%

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**tan δ**

- Frequency [MHz]
- Tolerance 3%

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**Technical Information**

- Technical information in Service Bulletin SB-52 must be considered
- Issue: 23-Sep-2009
- Replaces: 19-Feb-2008