**Data-Sheet - Variable Vacuum Capacitor - Maxi-Con Series**

**CVMX-500AC/25-BEAA-J**

Old Type Designation: CV1C-500IG

### Specifications

<table>
<thead>
<tr>
<th>Parameter</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>50 pF</td>
</tr>
<tr>
<td>Voltage (Peak Test $U_{\text{pt}}$ / Peak Working $U_{\text{pw}}$)</td>
<td>25 kV / 15 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>170 Arms</td>
</tr>
<tr>
<td>Self Inductance</td>
<td>$\leq 7$ nH</td>
</tr>
<tr>
<td>Capacitance per turn</td>
<td>23.4 pF/turn</td>
</tr>
<tr>
<td>Torque</td>
<td>$\leq 0.6$ Nm</td>
</tr>
<tr>
<td>Net Weight</td>
<td>2.5 kg</td>
</tr>
</tbody>
</table>

### Technical Information

- **Volume and Weight**:
  - Capacitance
  - Frequency

- **Reference Point**: 68.5 pF

- **Frequency [MHz]**: 13.56 MHz
  - Conduction
  - 30W

- **Current $I_{\text{max}}$ [Arms]**: 10, 100, 1000
  - Conduction
  - 100, 1000

- **Conduction and Convection (30 W) cooling**

### Note:

Technical information in Service Bulletin SB-52 must be considered.
Turns | Nominal Capacitance [pF] | Tolerance
---|---|---
-0.4 | 50.0 | 10%
-0.2 | 54.3 | 10%
0.0 | 58.5 | 0%
4.0 | 149.5 | 10%
8.0 | 243.5 | 10%
12.0 | 337.5 | 10%
16.0 | 431.6 | 10%
18.9 | 500.0 | 10%

Mechanical stop at < 50 pF at ~ -2.9 turns
Mechanical stop at > 500 pF at ~ 19.1 turns

Special Features:
- Special Bellows

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

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