

**PRASAR BHARATI  
(BROADCASTING CORPORATION OF INDIA)  
DIRECTORATE GENERAL: ALL INDIA RADIO  
(PLANNING & DEVELOPMENT UNIT)  
NEW Delhi-110001**

Requirements & Specifications of Variable Vacuum Capacitor.

S. No.	Type of Capacitors	Capacitance in PF	Req. Qty.
1	CV2C-50E,	8-50	05
2	CV3C -75E	8-75	05
3	CV03/1000G	8-1000	04
4	CV1C 500E,	20-500	03
5	CV3W-650FB/50,	30-650	09
6	CV3W1000JB/50	100-1000	31
7	CV3W-1300FB/50,	40-1300	13
8	CWV1-1600-0060,	100-1600	02

<b>Type: CV2C-50E</b>	
Specifications	
Type	Ceramic
Capacity $C_{max}$ . (nominal)	50 pf
Capacity $C_{min}$ . (nominal)	8 pf
Voltage (Peak Test $U_{pt}$ / Peak Working $U_{pw}$ )	35 /25 KV
Length in ( mm)	158
Diameter in ( mm)	70
Max. Current $I_{max}$ at 13.56 Mhz with	63 Arms

<b>Type: CV3C-75E</b>	
Specifications	
Type	Ceramic
Capacity $C_{max.}$ (nominal)	75 pf
Capacity $C_{min.}$ (nominal)	8 pf
Voltage (Peak Test $U_{pt}$ / Peak Working $U_{pw}$ )	45 /30 KV
Length in ( mm)	196
Diameter in ( mm)	116
Max. Current $I_{max}$ at 13.56 Mhz with	79 Arms

<b>Type: CV03/1000G</b>	
Specifications	
Type	Ceramic
Capacity $C_{max.}$ (nominal)	1000 pf
Capacity $C_{min.}$ (nominal)	8 pf
Voltage (Peak Test $U_{pt}$ / Peak Working $U_{pw}$ )	3.0
Length in ( mm)	197
Diameter in ( mm)	82.5
Max. Current $I_{max}$ at 13.56 Mhz with	79 Arms

<b>Type: CV1C 500E</b>	
Specifications	
Type	Ceramic
Capacity $C_{max.}$ (nominal)	500 pf
Capacity $C_{min.}$ (nominal)	20 pf
Voltage (Peak Test $U_{pt}$ / Peak Working $U_{pw}$ )	7.5 /4.5 KV
Length in ( mm)	191.3
Diameter in ( mm)	87.4
Max. Current $I_{max}$ at 13.56 Mhz with	80 Arms

<b>Type: CV3W-650FB</b>	
Specifications	
Type	Ceramic
Capacity C <sub>max.</sub> (nominal)	650pf
Capacity C <sub>min.</sub> (nominal)	30pf
Voltage (Peak Test U <sub>pt</sub> / Peak Working U <sub>pw</sub> )	50/30KV
Length in ( mm)	420
Diameter in ( mm)	188
Capacity Tolerance (linear Range)	3%
Max. Current I <sub>max</sub> at 13.56 Mhz with Water Cooling	467 Arms 12 l/min
Self Inductance	≤ 31nH
Capacitance per turn	25.9 pF/turn
Torque	≤ 1.5Nm
Net Weight	12 kg

<b>Type: CV3W-1000JB</b>	
Specifications	
Type	Ceramic
Capacity C <sub>max.</sub> (nominal)	1000pf
Capacity C <sub>min.</sub> (nominal)	100pf
Voltage (Peak Test U <sub>pt</sub> / Peak Working U <sub>pw</sub> )	50/30KV
Length in ( mm)	474
Diameter in ( mm)	214
Capacity Tolerance (linear Range)	10%
Max. Current I <sub>max</sub> at 13.56 Mhz with Water Cooling	843 Arms 25 l/min
Self Inductance	≤ 39 nH
Capacitance per turn	35.6 pF/turn
Torque	≤ 1.5Nm
Net Weight	18 kg

<b>Type: CV3W-1300FB</b>	
Specifications	
Type	Ceramic
Capacity $C_{max.}$ (nominal)	1300 pf
Capacity $C_{min.}$ (nominal)	40pf
Voltage (Peak Test $U_{pt}$ / Peak Working $U_{pw}$ )	50/30 KV
Length in ( mm)	546
Diameter in ( mm)	214
Capacity Tolerance (linear Range)	2%
Max. Current $I_{max}$ at 13.56 Mhz with Water Cooling	797 Arms
	25 l/min
Self Inductance	$\leq 34nH$
Capacitance per turn	35.8 pF/turn
Torque	$\leq 1.5Nm$
Net Weight	19 kg

<b>Type: CWV1-1600-0060</b>	
Specifications	
Type	Ceramic
Capacity $C_{max.}$ (nominal)	1600pf
Capacity $C_{min.}$ (nominal)	100pf
Voltage (Peak Test $U_{pt}$ / Peak Working $U_{pw}$ )	60/36KV
Length in ( mm)	564.20
Diameter in ( mm)	320.04
Max. Current $I_{max}$ at 13.56 Mhz with	1000 Arms
Net Weight	138 lb

**(VIJAY KUMAR PASRIJA)**  
**ASSITANT ENGINEER(TM)**