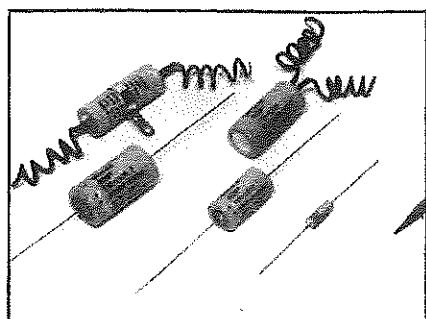


TYPE TVA ATOM® ELECTROLYTICS



- Smallest dependable standard tubular capacitor.

- Ideal for application in TV sets, ac/dc sets, auto radios, home radio-phono combinations, or other electronic equipment servicing.

- Lower leakage currents, long shelf life.

- Capable of withstanding high temperatures, high ripple currents, and high surge voltages.

- Metal case construction with thermoplastic outer sleeve.

- Catalog numbers with TVAN prefix are non-polarized, and are ideal for speaker cross-over networks.

- Units with diamond (◊) have mounting strap attached. Units with dagger (†) are single-ended with 8-inch flexible leads.

DIMENSIONS (in inches)*

Size Code	D	L	Size Code	D	L	Size Code	D	L
BA	.250	.531	JC	.750	1.406	PH	1.062	4.875
BB	.250	.718	JD	.750	1.656	QA	1.125	2.156
CB	.312	.718	JE	.750	1.906	QB	1.125	2.687
CC	.312	.843	JF	.750	2.125	QC	1.125	2.703
DC	.375	.843	KA	.812	2.156	QD	1.125	2.875
DD	.375	.968	KB	.812	2.375	RA	1.250	2.156
DF	.375	1.281	LA	.875	1.406	RB	1.250	2.687
DH	.375	1.531	LB	.875	1.656	RC	1.250	2.703
EA	.437	1.156	LC	.875	1.906	RD	1.250	3.156
EB	.437	1.281	LD	.875	2.156			
EC	.437	1.531	LE	.875	2.656	RE	1.250	3.375
ED	.437	1.656	LF	.875	2.906	RF	1.250	3.687
EE	.437	1.890				RG	1.250	2.687
EF	.437	1.906	MA	.937	2.312	RH	1.250	3.156
EG	.437	1.937	NA	1.0	1.656	RJ	1.250	3.687
EH	.437	2.140	NB	1.0	1.906	RK	1.250	3.703
EJ	.437	2.390	NC	1.0	2.156	RL	1.250	3.875
			ND	1.0	2.406			
FA	.500	1.156	NE	1.0	2.640	SA	1.375	2.156
FB	.500	1.281	NF	1.0	2.656	SB	1.375	2.375
FC	.500	1.406	NG	1.0	3.156	SC	1.375	2.625
FD	.500	1.531	NH	1.0	3.406	SD	1.375	2.687
FE	.500	1.625	NJ	1.0	3.656	SE	1.375	2.875
FF	.500	1.812				SF	1.375	3.125
GA	.562	1.656	PA	1.062	2.062	SG	1.375	3.375
HA	.625	1.406	PB	1.062	2.812	SH	1.375	3.687
HB	.625	1.656	PC	1.062	2.875	SJ	1.375	4.125
HC	.625	1.812	PD	1.062	3.187	SK	1.375	4.156
JA	.750	1.156	PF	1.062	4.062	SL	1.375	4.625
JB	.750	1.390	PG	1.062	4.187	TA	1.875	2.156

PERFORMANCE CHARACTERISTICS

1. **Operating Temperature Range:** Capacitors rated at 100 WVDC or less ... -40°C to +85°C; above 100 WVDC ... -20°C to +85°C.

2. **Equivalent Series Resistance:** The product of rated capacitance, in microfarads, and the equivalent series resistance, in ohms at 120 Hz and 25°C, shall not exceed the values below:

WVDC	R x C
3-12	333
16-49	265
50-100	133
150-450	200

3. **Surge Voltage Test:** Capacitors are capable of withstanding a surge test voltage applied in a series with 1000 ohm current-limiting resistor at the rate of ½ minute on, 4½ minutes off, for 1000 successive test cycles at 25°C.

4. **Life Test:** Capacitors are capable of withstanding a 1000 hour life test at +85°C. After test, the equivalent series resistance shall not have increased by more than 150% of initial requirement, and leakage current shall meet initial requirement.

μF	WVDC	Size Code	Catalog Number	μF	WVDC	Size Code	Catalog Number	μF	WVDC	Size Code	Catalog Number	μF	WVDC	Size Code	Catalog Number
Single Units (Polarized)				3000	12	LB	TVA1135	1200	16	FF	TVA1164	2300	20	NA	TVA1194
75	6	CB	TVA1100.5	20	16	BA	TVA1147	1500	16	FF	TVA1175.2	8	25	BA	TVA1203.3
150	6	CB	TVA1101.5	25	16	BA	TVA1148	2000	16	HC	TVA1170	10	25	BA	TVA1204
200	6	CC	TVA1101.7	50	16	BB	TVA1150	2500	16	HC	TVA1175.3	15	25	BA	TVA1204.2
250	6	CC	TVA1102	100	16	CB	TVA1160	3000	16	LC	TVA1175	20	25	BB	TVA1204.5
300	6	DC	TVA1102.1	150	16	CC	TVA1160.3	4000	16	LD	TVA1175.4	25	25	BB	TVA1205
400	6	DD	TVA1102.3	175	16	DC	TVA1160.4					30	25	BB	TVA1205.1
500	6	DD	TVA1103	200	16	DC	TVA1160.6	5000	16	NC	TVA1175.5	35	25	CB	TVA1205.2
1000	6	DH	TVA1104					6000	16	QA	TVA1175.6	40	25	CB	TVA1205.7
1500	6	EC	TVA1105	250	16	DD	TVA1161	8000	16	QB	TVA1175.7	.50	25	CB	TVA1206
2000	6	FF	TVA1106	300	16	DD	TVA1161.1	10000	16	RB	TVA1175.8	75	25	CC	TVA1206.1
4000	10	LC	TVA1129.4	500	16	DH	TVA1162	15000	16	RF	TVA1175.11	100	25	CC	TVA1207
5000	10	NC	TVA1129.5	600	16	DH	TVA1162.2								
10000	10	QB	TVA1129.8	800	16	EC	TVA1162.3	150	20	DC	TVA1180	150	25	DC	TVA1207.5
290	12	DD	TVA1131.1	1000	16	EC	TVA1163	1500	20	HC	TVA1190	200	25	DD	TVA1207.7



CAPACITORS • CAPACITORS • CAPACITORS • CAPACITORS

TYPE TVA ATOM® ELECTROLYTICS, continued

μF	WVDC	Size Code	Catalog Number	μF	WVDC	Size Code	Catalog Number	μF	WVDC	Size Code	Catalog Number	μF	WVDC	Size Code	Catalog Number
250	25	DF	TVA1208	25	100	DH	TVA1340	20	250	FF	TVA1508	120	450	RF	TVA1718.3
300	25	DF	TVA1208.5	30	100	DH	TVA1341	30	250	HC	TVA1510	150	450	SH	TVA1719.1†
350	25	EC	TVA1208.6	50	100	FD	TVA1343	40	250	LA	TVA1511	160	450	SH	TVA1719.2
400	25	EC	TVA1208.7	60	100	FD	TVA1344	50	250	LA	TVA1512	200	450	SK	TVA1720†
450	25	EC	TVA1208.8	75	100	FF	TVA1345	60	250	LB	TVA1513	16	475	LB	TVA1803.1
500	25	EC	TVA1209	85	100	HC	TVA1345.2	100	250	NB	TVA1522	1	500	FA	TVA1890
600	25	EC	TVA1209.2	100	100	HC	TVA1346					3	500	HA	TVA1895
1000	25	FF	TVA1211	150	100	HC	TVA1347	150	250	QA	TVA1625	5	500	JA	TVA1901
1500	25	HC	TVA1212	200	100	LC	TVA1348	200	250	NC	TVA1526	8	500	JD	TVA1902
2000	25	NB	TVA1213	250	100	LC	TVA1349	225	250	RB	TVA1528†				
2500	25	NB	TVA1213.5	300	100	NB	TVA1350	250	250	RB	TVA1528.2	10	500	JD	TVA1903
3000	25	NC	TVA1214†	500	100	RA	TVA1376					16	500	LD	TVA1905
4000	25	QB	TVA1214.2	1500	100	RF	TVA1382	300	250	RD	TVA1528.5	20	500	LD	TVA1906
5000	25	QB	TVA1214.5	2000	100	SK	TVA1384	400	250	RF	TVA1528.7	30	500	NB	TVA1907
8000	25	RF	TVA1214.8	1	150	BA	TVA1400	450	250	SH	TVA1528.8	40	500	ND	TVA1908
10000	25	SH	TVA1214.10	2	150	BB	TVA1400.1	600	250	SK	TVA1529	4	600	KB	TVA1960
200	35	DF	TVA1223	3	150	CB	TVA1400.2					8	600	PC	TVA1962
500	35	FF	TVA1227	4	150	CC	TVA1402	1	300	CB	TVA1540	10	600	PD	TVA1963
5500	35	NH	TVA1229	5	150	CC	TVA1403	5	300	DF	TVA1544	16	600	PG	TVA1965
1	50	BA	TVA1300	6	150	DC	TVA1403.1	10	300	EC	TVA1547	20	600	PH	TVA1966
2	50	BA	TVA1301	8	150	DC	TVA1405	15	300	FD	TVA1549				
3	50	BA	TVA1302	10	150	DD	TVA1406	50	300	LC	TVA1570				
															Single Units (Non-Polarized)
μF												μF	Volts	Size Code	Catalog Number
5	50	BA	TVA1303	15	150	DF	TVA1408	140	300	NG	TVA1575†				
6	50	BA	TVA1303.1	16	150	DF	TVA1409	150	300	RB	TVA1576†				
8	50	BB	TVA1303.2	20	150	DH	TVA1410	200	300	RD	TVA1578†				
10	50	BB	TVA1304	25	150	EB	TVA1411	300	300	SH	TVA1580				
15	50	BB	TVA1305	30	150	EC	TVA1412	400	300	SK	TVA1582				
				35	150	FD	TVA1412.1	1	350	CC	TVA1599				
20	50	CB	TVA1305.5	40	150	FD	TVA1413	2	350	DC	TVA1600				
25	50	CB	TVA1306	50	150	FF	TVA1414	3	350	DD	TVA1600.1				
35	50	CC	TVA1306.2	60	150	HC	TVA1415	4	350	DF	TVA1601	2.5	20	BA	TVA1176
40	50	CC	TVA1306.5	75	150	HC	TVA1416					1	25	BA	TVA1200
50	50	DC	TVA1308					5	350	DH	TVA1602.5	2	25	BA	TVA1202
				80	150	LA	TVA1418	6	350	DH	TVA1602.6	5	25	BA	TVA1203.1
60	50	DC	TVA1309.3	100	150	LB	TVA1420	8	350	EC	TVA1603	10	25	BB	TVA1204.1
75	50	DD	TVA1309.4	150	150	LD	TVA1422	10	350	FD	TVA1604				
100	50	DD	TVA1310	200	150	NC	TVA1423	12	350	FD	TVA1605	16	25	BB	TVA1204.3
120	50	DF	TVA1310.1	250	150	QA	TVA1424†					25	25	CB	TVA1205.1
125	50	DF	TVA1310.2					15	350	FF	TVA1607	35	25	CC	TVA1205.5
150	50	DF	TVA1311	300	150	QB	TVA1425	20	350	FF	TVA1608	50	25	CC	TVA1206.1
200	50	DH	TVA1311.5	400	150	RB	TVA1426.1	50	350	LD	TVA1612	100	25	DD	TVA1207.1
250	50	EC	TVA1312	500	150	RD	TVA1428	60	350	LD	TVA1613				
300	50	EC	TVA1312.1	1000	150	SK	TVA1429	100	350	NF	TVA1620	20	30	CB	TVA1220
350	50	FF	TVA1312.2	1	200	BB	TVA1434					2	50	BA	TVA1301.1
				2	200	CB	TVA1435	150	350	QC	TVA1622†	3	50	BA	TVA1302.1
400	50	FF	TVA1313	3	200	CC	TVA1436	160	350	QC	TVA1623	4	50	BB	TVA1303.1
500	50	FF	TVA1315	4	200	DC	TVA1437	200	350	RD	TVA1624†	5	50	BB	TVA1304.1
600	50	HC	TVA1315.2	5	200	DC	TVA1438	250	350	SH	TVA1627	8	50	BB	TVA1303.4
800	50	LB	TVA1315.4	6	200	DD	TVA1439	300	350	RJ	TVA1628†	10	50	CB	TVA1304.1
1000	50	LC	TVA1316					150	350	QC	TVA1622†	20	50	DC	TVA1306.1
				8	200	DF	TVA1440	30	400	LB	TVA1658	30	50	DC	TVA1306.2
1500	50	LD	TVA1318	10	200	DF	TVA1441	40	400	LC	TVA1659	50	50	DD	TVA1308.1
2000	50	QA	TVA1318.2	15	200	EB	TVA1442	200	400	RF	TVA1666				
2500	50	QB	TVA1318.3	20	200	EC	TVA1442.1	1	450	DC	TVA1700	60	50	DF	TVA1309.2
3000	50	RB	TVA1318.4	25	200	FD	TVA1442.2					100	50	DH	TVA1310.1
4000	50	RD	TVA1318.5					2	450	DF	TVA1701	10	100	FE	TVA1333
				30	200	FF	TVA1442.3	3	450	FB	TVA1701.1	20	100	HB	TVA1335
5000	50	SF	TVA1318.7	40	200	HC	TVA1442.5	4	450	EC	TVA1702	40	100	JD	TVA1340
8000	50	SK	TVA1318.10	50	200	HC	TVA1443	5	450	FB	TVA1703				
250	60	FF	TVA1319	100	200	LD	TVA1445	8	450	FF	TVA1704	4	150	GA	TVA1402.1
1	63	BA	TVA1319.10	150	200	NC	TVA1447†					10	150	JC	TVA1406.1
500	75	NF	TVA1319.5	200	200	QB	TVA1480†	10	450	HC	TVA1705	40	150	JF	TVA1413.1
1000	75	NF	TVA1319.7	500	200	RF	TVA1484	20	450	KA	TVA1709	60	200	NF	TVA1440
1500	75	NJ	TVA1319.8†	2	250	DC	TVA1500.1	25	450	LC	TVA1710				
2000	75	SB	TVA1319.9	3	250	DC	TVA1500.2	30	450	NB	TVA1711	1	300	FC	TVA1560
4	100	CB	TVA1333	4	250	DD	TVA1501	40	450	LD	TVA1712	5	350	JD	TVA1602
6	100	CC	TVA1335	6	250	DF	TVA1502.1	50	450	QA	TVA1713	10	350	NB	TVA1604.1
10	100	DC	TVA1337	8	250	DH	TVA1503	60	450	QA	TVA1714	20	400	LC	TVA1650†
15	100	DD	TVA1338	10	250	EB	TVA1504	80	450	NF	TVA1716				
20	100	DF	TVA1339	12	250	EC	TVA1505	100	450	RD	TVA1718	10	450	NB	TVA1705.1