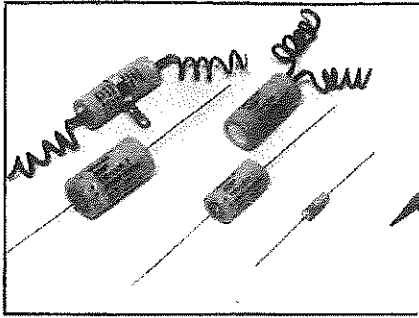


## TYPE TVA ATOM® ELECTROLYTICS



- 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 thermoplasti 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	RE	1.250	3.375
EC	.437	1.531	LE	.875	2.656	RF	1.250	3.687
ED	.437	1.656	LF	.875	2.906	RG	1.250	2.687
EE	.437	1.890	MA	.937	2.312	RH	1.250	3.156
EF	.437	1.906	NA	1.0	1.656	RJ	1.250	3.687
EG	.437	1.937	NB	1.0	1.906	RK	1.250	3.703
EH	.437	2.140	NC	1.0	2.156	RL	1.250	3.875
EJ	.437	2.390	ND	1.0	2.406	SA	1.375	2.156
FA	.500	1.156	NE	1.0	2.640	SB	1.375	2.375
FB	.500	1.281	NF	1.0	2.656	SC	1.375	2.625
FC	.500	1.406	NG	1.0	3.156	SD	1.375	2.687
FD	.500	1.531	NH	1.0	3.406	SE	1.375	2.875
FE	.500	1.625	NU	1.0	3.656	SF	1.375	3.125
FF	.500	1.812	PA	1.062	2.062	SG	1.375	3.375
GA	.562	1.656	PB	1.062	2.812	SH	1.375	3.687
HA	.625	1.406	PC	1.062	2.875	SJ	1.375	4.125
HB	.625	1.656	PD	1.062	3.187	SK	1.375	4.156
HC	.625	1.812	PE	1.062	3.437	SL	1.375	4.625
JA	.750	1.156	PF	1.062	4.062	TA	1.875	2.156
JB	.750	1.390	PG	1.062	4.187			

### PERFORMANCE CHARACTERISTICS

- Operating Temperature Range:** Capacitors rated at 100 WVDC or less ... -40°C to +85°C; above 100 WVDC ... -20°C to +85°C.
- 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
- 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.
- 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
<b>Single Units (Polarized)</b>				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					20	25	BB	TVA1204.5
300	6	DC	TVA1102.1					3000	16	LC	TVA1175	25	25	BB	TVA1205
				150	16	CC	TVA1160.3	4000	16	LD	TVA1175.4	30	25	BB	TVA1205.1
400	6	DD	TVA1102.3	175	16	DC	TVA1160.4								
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					50	25	CB	TVA1206
2000	6	FF	TVA1106	300	16	DD	TVA1161.1	8000	16	QB	TVA1175.7	75	25	CC	TVA1206.1
				500	16	DH	TVA1162	10000	16	RB	TVA1175.8	100	25	CC	TVA1207
4000	10	LC	TVA1129.4	600	16	DH	TVA1162.2	15000	16	RF	TVA1175.11				
5000	10	NC	TVA1129.5	800	16	EC	TVA1162.3					150	25	DC	TVA1207.5
10000	10	QB	TVA1129.8	1000	16	EC	TVA1163	150	20	DC	TVA1180	200	25	DD	TVA1207.7
290	12	DD	TVA1131.1					1500	20	HC	TVA1190				

TYPE TVA ATOM<sup>®</sup> 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					150	450	SH	TVA1719†
350	25	EC	TVA1208.6					30	250	HC	TVA1510	160	450	SH	TVA1719.2
				50	100	FD	TVA1343	40	250	LA	TVA1511	200	450	SK	TVA1720†
400	25	EC	TVA1208.7	60	100	FD	TVA1344	50	250	LA	TVA1512				
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	250	QA	TVA1525				
				150	100	HC	TVA1347	160	250	NC	TVA1526	5	500	JA	TVA1901
1500	25	HC	TVA1212	200	100	LC	TVA1348	200	250	RB	TVA1528†	8	500	JD	TVA1902
2000	25	NB	TVA1213	250	100	LC	TVA1349	225	250	RB	TVA1528.2				
2500	25	NB	TVA1213.5	300	100	NB	TVA1350	250	250	RC	TVA1528.3	10	500	JD	TVA1903
3000	25	NC	TVA1214†	500	100	RA	TVA1376					16	500	LD	TVA1905
4000	25	QB	TVA1214.2					300	250	RD	TVA1528.5	20	500	LD	TVA1906
				1500	100	RF	TVA1382	400	250	RF	TVA1528.7	30	500	NB	TVA1907
5000	25	QB	TVA1214.5	2000	100	SK	TVA1384	450	250	SH	TVA1528.8	40	500	ND	TVA1908
8000	25	RF	TVA1214.8	1	150	BA	TVA1400	500	250	SH	TVA1528.9				
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					1	300	CB	TVA1540	10	600	PD	TVA1963
				4	150	CC	TVA1402	5	300	DF	TVA1544				
5500	35	NH	TVA1229	5	150	CC	TVA1403	10	300	EC	TVA1547	16	600	PG	TVA1965
1	50	BA	TVA1300	6	150	DC	TVA1403.1	15	300	FD	TVA1549	20	600	PH	TVA1966
2	50	BA	TVA1301	8	150	DC	TVA1405	50	300	LC	TVA1570				
3	50	BA	TVA1302	10	150	DD	TVA1406								
4	50	BA	TVA1302.7					100	300	QA	TVA1573	Single Units (Non-Polarized)			
				15	150	DF	TVA1408	140	300	NG	TVA1575†	μF	Volts	Size Code	Catalog Number
5	50	BA	TVA1303	16	150	DF	TVA1409	150	300	RB	TVA1576†	8	10	BA	TVAN1112
6	50	BA	TVA1303.1	20	150	DH	TVA1410	200	300	RD	TVA1578†	10	10	BA	TVAN112.4
8	50	BB	TVA1303.2	25	150	EB	TVA1411	300	300	SH	TVA1580	50	10	CB	TVAN1117
10	50	BB	TVA1304	30	150	EC	TVA1412					4	15	BA	TVAN1150
15	50	BB	TVA1305					400	300	SK	TVA1582	10	15	BA	TVAN1155
				35	150	FD	TVA1412.1	1	350	CC	TVA1599	2.5	20	BA	TVAN1176
20	50	CB	TVA1305.5	40	150	FD	TVA1413	2	350	DC	TVA1600	1	25	SA	TVAN1200
25	50	CB	TVA1306	50	150	FF	TVA1414	3	350	DD	TVA1600.1	2	25	BA	TVAN1202
35	50	CC	TVA1306.2	60	150	HC	TVA1415	4	350	DF	TVA1601	5	25	BA	TVAN1203.1
40	50	CC	TVA1306.5	75	150	HC	TVA1416					10	25	BB	TVAN1204.1
50	50	DC	TVA1308					5	350	DH	TVA1602.5	16	25	BB	TVAN1204.3
				80	150	LA	TVA1418	6	350	DH	TVA1602.6	25	25	CB	TVAN1205.1
60	50	DC	TVA1309.3	100	150	LB	TVA1420	8	350	EC	TVA1603	35	25	CC	TVAN1205.5
75	50	DD	TVA1309.4	150	150	LD	TVA1422	10	350	FD	TVA1604	50	25	CC	TVAN1206.1
100	50	DD	TVA1310	200	150	NC	TVA1423	12	350	FD	TVA1605	100	25	DD	TVAN1207.1
120	50	DF	TVA1310.1	250	150	QA	TVA1424†					20	30	CB	TVAN1220
125	50	DF	TVA1310.2					15	350	FF	TVA1607	2	50	BA	TVAN1301.1
				300	150	QB	TVA1425	20	350	FF	TVA1608	3	50	BA	TVAN1302.1
150	50	DF	TVA1311	400	150	RB	TVA1426.1	50	350	LD	TVA1612	4	50	BB	TVAN1302.5
200	50	DH	TVA1311.5	500	150	RD	TVA1428	60	350	LD	TVA1613	5	50	BB	TVAN1303.1
250	50	EC	TVA1312	1000	150	SK	TVA1429	100	350	NF	TVA1620				
300	50	EC	TVA1312.1	1	200	BB	TVA1434					8	50	BB	TVAN1303.4
350	50	FF	TVA1312.2					150	350	QC	TVA1622†	10	50	CB	TVAN1304.1
				2	200	CB	TVA1435	160	350	QC	TVA1623	25	50	DC	TVAN1306.1
400	50	FF	TVA1313	3	200	CC	TVA1436	200	350	RD	TVA1624†	30	50	DC	TVAN1306.2
500	50	FF	TVA1315	4	200	DC	TVA1437	250	350	SH	TVA1627	50	50	DD	TVAN1308.1
600	50	HC	TVA1315.2	5	200	DC	TVA1438	300	350	RJ	TVA1628†				
800	50	LB	TVA1315.4	6	200	DD	TVA1439					60	50	DF	TVAN1309.2
1000	50	LC	TVA1316					6	400	FB	TVA1650	100	50	DH	TVAN1310.1
				8	200	DF	TVA1440	30	400	LB	TVA1658	10	100	FE	TVAN1333
1500	50	LD	TVA1318	10	200	DF	TVA1441	40	400	LC	TVA1659	20	100	HB	TVAN1335
2000	50	QA	TVA1318.2	15	200	EB	TVA1442	200	400	RF	TVA1666	40	100	JD	TVAN1340
2500	50	QB	TVA1318.3	20	200	EC	TVA1442.1	1	450	DC	TVA1700				
3000	50	RB	TVA1318.4	25	200	FD	TVA1442.2					60	50	DF	TVAN1309.2
4000	50	RD	TVA1318.5					2	450	DF	TVA1701	100	50	DH	TVAN1310.1
				30	200	FF	TVA1442.3	3	450	FB	TVA1701.1	10	100	FE	TVAN1333
5000	50	SF	TVA1318.7	40	200	HC	TVA1442.5	4	450	EC	TVA1702	20	100	HB	TVAN1335
8000	50	SK	TVA1318.10	50	200	HC	TVA1443	5	450	FB	TVA1703	40	100	JD	TVAN1340
250	60	FF	TVA1319	100	200	LD	TVA1445	8	450	FF	TVA1704				
1	63	BA	TVA1319.10	150	200	NC	TVA1447†					4	150	GA	TVAN1402.1
500	75	NF	TVA1319.5					10	450	HC	TVA1705	10	150	JC	TVAN1406.1
				200	200	QB	TVA1480†	12	450	HC	TVA1706	40	150	JF	TVAN1413.1
1000	75	NF	TVA1319.7	500	200	RF	TVA1484	20	450	KA	TVA1709	2	200	FC	TVAN1435.1
1500	75	NJ	TVA1319.8†	2	250	DC	TVA1500.1	25	450	LC	TVA1710	60	200	NF	TVAN1440
2000	75	SB	TVA1319.9	3	250	DC	TVA1500.2	30	450	NB	TVA1711				
4	100	CB	TVA1333	4	250	DD	TVA1501					1	300	FC	TVAN1560
6	100	CC	TVA1335					40	450	LD	TVA1712	5	350	JD	TVAN1602
				6	250	DF	TVA1502.1	50	450	QA	TVA1713	10	350	NB	TVAN1604.1
10	100	DC	TVA1337	8	250	DH	TVA1503	60	450	QA	TVA1714	10	400	LC	TVAN1650
15	100	DD	TVA1338	10	250	EB	TVA1504	80	450	NF	TVA1716	20	400	NC	TVAN1652
20	100	DF	TVA1339	12	250	EC	TVA1505	100	450	RD	TVA1718	10	450	NB	TVAN1705.1